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A description of the building materials data base for Pittsburgh, Pennsylvania

Carolyn J. Merry and Perry J. LaPotin

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PREFACE

This report was prepared by Carolyn J. Merry, Research Physical Scientist, Earth Sciences Branch, Research Division, U.S. Army Cold Regions Research and Engineering Laboratory, and Perry J. LaPotin, Senior Programmer, Department of Physics and Astronomy, Dartmouth College, Hanover, New Hampshire. This research has been funded as part of the National Acid Precipitation Assessment Program by the U.S. Environmental Protection Agency under reimbursable order number DW21930284-01-0.

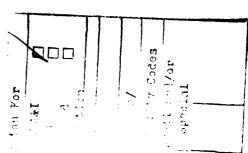
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A DESCRIPTION OF THE BUILDING MATERIALS DATA BASE FOR PITTSBURGH, PENNSYLVANIA

by

Carolyn J. Merry Perry J. LaPotin

INTRODUCTION

Background

The Interagency Task Force on Acid Precipitation manages the National Acid Precipitation Assessment Program (NAPAP). There are ten Task Groups in the task force, one for each of the nine research areas in the national program and one for international activities (Table 1). The goal of NAPAP is to develop and improve a data base that will help researchers understand the causes and effects of acid deposition and how it can be effectively managed. Our work on the acid rain program has been with the Environmental Protection Agency in support of Task Group G, which examines the Effects on Building Materials and Cultural Resources, as part of the ongoing effort to define the type and magnitude of building materials exposed to acid deposition in the northeastern United States.

The purpose of our research is to develop a data base of specific building materials types that are sensitive to acid deposition. Our data bases were to build upon prior data bases (St. Louis, Missouri; Baltimore, Maryland; Boston, Massachusetts) collected in support of the EPA Acid Rain Research Program (McFadden and Koontz 1980, TRC Consultants, Inc., 1983). A systematic sampling algorithm has been developed to sample buildings from a given city (Ling and Rosenfield 1980) and it can be applied to other cities across the United States according to urban similarity patterns.*

New Haven, Connecticut, and Portland, Maine, were selected as the first New England test sites to obtain ground truth data on building surface materials (Merry and LaPotin, in prep., 1985b). These two cities are similar to one another in terms of land area and population.* In this way our sample design could be tested by predicting building materials

^{*} Personal communication with James Wray and George Rosenfield, U.S. Geological Survey, 1985.

Table 1. The ten Task Groups within the National Acid Precipitation Assessment Program (after Interagency Task Force on Acid Precipitation 1984).

Task Group		Coordinating agency
A	Natural sources	NOAA
В	Man-made sources	DOE
С	Atmospheric processes	NOAA
D	Deposition monitoring	DOI
E	Aquatic effects	EPA
F	Terrestrial effects	USDA
G	Effects on materials and cultural resources	B DOI
H	Control technologies	EPA
I	Assessments	EPA
J	International activities	DOS

NOAA - National Oceanic and Atmospheric Administration

DOE - Department of Energy

DOI - Department of Interior

EPA - Environmental Protection Agency

USDA - United States Department of Agriculture

DOS - Department of State

distribution in an unknown city (Portland) using the data from a known city (New Haven).

In Task Subgroup G's 13 July 1985 meeting, the subgroup recommended collecting data on building materials sensitive to acid rain deposition for two additional cities: Pittsburgh, Pennsylvania, and Cincinnati, Ohio. Both cities were located close to Corps of Engineers Division and District offices, so that the field personnel were familiar with the city, allowing the field program to run smoothly. Also, these two cities were located in the Ohio River Valley where there is significant acid deposition from large utilities emitting sulfates (LaPotin 1984).

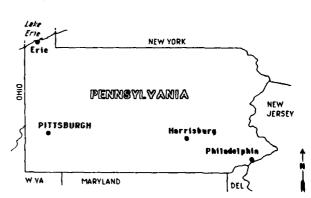


Figure 1. Pittsburgh, Pennsylvania.

Objective

This report presents the data base of building materials collected for Pittsburgh, Pennsylvania (Fig. 1). The description of the original data will be presented along with distribution summaries in the form of frequency tables, histograms and bar charts. In future reports the data will be analyzed to determine the suitability of the collected variables for predicting building materials distribution.

DESIGN OF THE FIELD SAMPLING PROGRAM

Sampling frame definition

The city of Pittsburgh, Pennsylvania, was subdivided into the sampling frames of Urban Central Business District (UCBD), Urban Livelihood, Industrial-Commercial (ULIC), Urban Multi-Family Residential (UMFR), Urban

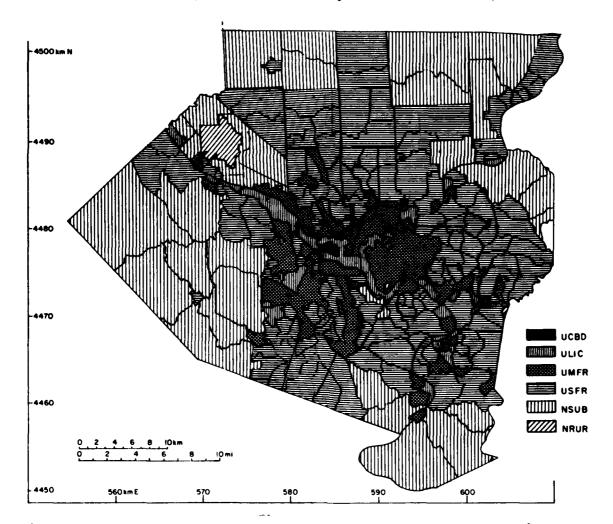


Figure 2. Sampling frames for the Pittsburgh, Pennsylvania, area (after Rosenfield 1984).

Single-Family Residential (USFR), Nonurban Suburbanizing (NSUB) and Non-urban Rural (NRUR) (Fig. 2) by the U.S. Geological Survey.* Each sampling frame is composed of a number of census tracts with a commonality on the basis of population density, number of single-unit dwellings and land use (Rosenfield 1984).

Selection of sample points

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The sample points for each sampling frame were also generated by the U.S. Geological Survey procedure. A sample size of 70 was calculated previously using the Revere, Massachusetts, data base of buildings (Merry and LaPotin 1985a). This was obtained by multiplying the minimum sample size determined from the cumulative multinomial distribution (30) by the design effect (2.34) (Rosenfield 1984). The stratified, systematic, unaligned random sampling procedure used in the New Haven, Connecticut, field sampling program (Merry and LaPotin 1985b) was modified by the U.S. Geological Survey for the Portland, Maine, field survey to distribute the points across only the land cover types likely to contain buildings. Thus the land cover types above 24 (Table 2), which included rangeland, forest land, water, wetland and barren land, were not considered when generating points so that a minimum of empty sample points were encountered in the field. The sample point selection procedure used in Portland was also used in Pittsburgh.

Table 3 shows the total number of points that were generated for the Pittsburgh field survey program. The Universal Transverse Mercator (UTM) coordinates for each sample point are shown in Appendix A.

Each sample point had a corresponding "footprint" or a given spatial area on the ground that was examined during the field survey. The footprint size was calculated in accordance with the procedure used in the New Haven study (Merry and LaPotin 1985b). The average values of the total amount of land and the number of dwelling units (taken from 1980 census data) for each sampling frame were used in a simple PASCAL program to determine the footprint size for each sampling frame (Appendix B). The footprint areas were constrained to sample no more than 30% of the total UCBD frame. The final footprint sizes used in Pittsburgh are shown in Table 4.

^{*} Personal communication with James Wray, U.S. Geological Survey, 1984.

Table 2. Land use and land cover categories of the U.S. Geological Survey (after Anderson et al. 1976 and Rosenfield 1984).

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Collapsed categories	Level I	Level II
Built	1 Urban or 1	builtup land
residential		11 Residential
Built		12 Commercial and services
nonresidential		13 Industrial
		<pre>14 Transportation, communications and utilities</pre>
		15 Industrial and commercial complexes
		16 Mixed urben or builtup land
		17 Other urban or builtup land
	2 Agricultus	
Open land,		21 Cropland and pasture
with buildings		22 Orchards, groves, vineyards,
		nurseries and ornamental
		horticultural areas
		23 Confined feeding operations
	3 Rangeland	24 Other agricultural land
	2 wankerand	31 Herbaceous rangeland
		32 Shrub and brush rangeland
		33 Mixed rangeland
	4 Forest la	
		41 Deciduous forest land
		42 Evergreen forest land
		43 Mixed forest land
Omitted from	5 Water	
analysis		51 Streams and canals
		52 Lakes
		53 Reservoirs
Open Tool	6 Wetland	54 Bays and estuaries
Open land, without buildings	o wettand	61 Forested wetland
Arthogr partaings		62 Nonforested wetland
	7 Barren la	
	, 541.5011 24	71 Dry salt flats
		72 Beaches
		73 Sandy areas other than beaches
		74 Bare exposed rocks
		75 Strip mines, quarries and gravel pits
		76 Transitional areas
		77 Mixed barren land

Table 3. Number of sample points for the Pittsburgh, Pennsylvania, building materials inventory.

Sampling frame	No. of points with buildings	No. of empty points	Total points
UCBD	60 (73%)*	22 (27%)	82 (100%)
ULIC	85 (86%)	14 (14%)	99 (100%)
UMFR	82 (78%)	23 (22%)	105 (100%)
USFR	90 (88%)	12 (12%)	102 (100%)
NSUB			74**
NRUR			79**
Tot al	317 (82%)	71 (18%)	388 (100%)

^{*} Percentage values refer to the sample size of 388.

Table 4. Footprint sizes for the Pittsburgh, Pennsylvania, sampling frames.

Sampling frame	Footpri	int size (m)
UCBD	310	94
ULIC	264	80
UMFR	207	63
USFR	481	147
NSUB	1164	355
NRUR	2139	652

Field survey

The second of th

The field survey began in December 1984 and was completed in February 1985 by two-person teams from the Pittsburgh District, Corps of Engineers.

During the initial field work in the UCBD sampling frame, the field teams found that several buildings, as many as 18, were contained within a given footprint. To avoid extensive field work for any given footprint,

^{**} Points not sampled in Pittsburgh.

the number of buildings sampled for each footprint area was limited. The centermost building was sampled, and to ensure that we had a representative sample per footprint (for example, that the spatial area of the building not be extremely small in comparison to the footprint area), we sampled enough buildings so that the total spatial area of the sampled buildings was at least 10% of the footprint area. The buildings inventoried in the field were chosen randomly about the centerpoint of the footprint.

During the field sampling program, we found that the sampling of the urban sampling frames (UCBD, ULIC, UMFR, USFR) would take as much time and money as we had estimated for the entire city of Pittsburgh because both the Pittsburgh area and its footprint sizes were large in comparison to New Haven and Portland. The nonurban sample points (NSUB, NRUR) were also located much farther apart and travel time to each point was extensive. Because of monetary constraints, we limited the field survey in Pittsburgh to only the four urban sampling frames given above, meaning that 388 points out of the total 541 sample points generated for Pittsburgh were sampled (153 rural points were dropped). This report only addresses the results found for the urban sampling frames in Pittsburgh.

The building worksheet was similar to the worksheet used in the New Haven study. Based on recommendations of the CRREL survey teams in New Haven and Portland, the worksheet was simplified and redesigned. The worksheet used in the Pittsburgh field survey is shown in Appendix A. The worksheet form was designed to provide information on the characteristics of the surrounding terrain in terms of census tract, land use type and sampling frame; the dimensions and type of building; the lot size; the materials distribution percentages in the foundation, first story and all above stories; and the surface area and material types for the roof, roof-mounted apparatus (vents, flues, stacks, skylights and flashing), chimneys, rain gutters, downspouts and fences.

DATA DESCRIPTION

Each sample point was recorded on an individual data sheet during the survey. If the sample point was empty, the sections concerning description of the building were coded as zeros. When coding the data for a footprint that contained more than one building, the structure selected for coding was chosen randomly. Another variable (NBUILD) was added to the

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Figure 3. Sample page of frequency analysis data.

data base to record the total number of buildings occurring within a footprint. Usually, there were not more than three buildings inventoried in the field for a given footprint. The data were checked several times using the procedures described in Appendix B.

The variables assigned to the Pittsburgh field data are described in Appendix C, Description of the Variables section. The frequency runs for the variables are also presented in Appendix C. For each variable, numeric summaries are provided first (for example, the labels for each value with frequency of occurrence and percent of the distribution), followed by graphic presentation (histogram or bar chart), and ending with statistical summaries (for example, mean, mode, skewness and kurtosis). The sample size is presented at the bottom of each summary section, along with the number of missing cases (or observations). Each observation corresponds to a footprint sample point for the four sampling frames in Pittsburgh. Figure 3 is an example of how the frequency runs are presented in Appendix C.

Certain variables pertain exclusively to building materials exposure and distribution — for example, exposed walls in footprint (EWIF) and average wall height (HT). The frequency runs for the building description variables are tabulated using the sample size of 317 cases where buildings were observed in the footprints (Table 2). The frequency runs for all other variables not related specifically to the building description, such as the land use, sampling frame, sample point number and census tract for a given footprint, use the 388 total number of cases.

The column headings marked VALUE represent the actual observed value for the variable. FREQUENCY (denoted FREQ) represents the number of cases falling within the category. Percent (PCT) and cumulative percent (CUM PCT) represent the percent of the total falling within the specified category and the running cumulative percent, respectively; the cumulative percent for the last category is always 100.

Analysis was done using the Statistical Package for the Social Sciences (SPSS) software on a VAX-11/785 minicomputer (see Nie et al. 1975). A more in-depth discussion of the summary statistics can be found in most elementary applied statistics texts (e.g., Snedecor and Cochran 1980).

DISCUSSION

The frequencies provided in Appendix C are separated into six sections. In the first, the <u>Major Classification Variables</u> are presented. The variables include the distribution of land use designation (LU), sampling frame (SFRAME), sample point number (SPOINT) and census tract (TRACT) for the 388 total number of observations.

The land use classification for each sample point (LU) was based on its location within the digital land use information data base from the Geographic Information Retrieval and Analysis System (GIRAS) (Mitchell et al. 1977). The aerial photography source materials used in GIRAS are dated from 1972-74 (Loelkes 1977). The minimum mapping unit for the land cover map is 10 acres (0.04 km²) for the level II categories 11-17, 23-24, 51-54, 75 and urban occurrences of 76 (Table 2). The minimum mapping unit for the remaining level II categories was 40 acres (0.16 km²).

Almost half of the sampled footprints in Pittsburgh fall within the residential land use class. Another 28% are within the commercial and services land use class and 12% are within the industrial class. These

three land use types total near 87% of the footprints. Cumulative percents show that 94% of the sample points fall within the level I category of urban or builtup land with the remaining 6% found within the level I category of agriculture.

The sampling frame (SFRAME) displays the distribution of footprints within a given sampling frame. The minimum number of sampled points for a given subcategory is 82, corresponding to the UCBD class. The frequency table for SPOINT shows the sampled distribution and illustrates that all sampling frames contain the minimum of 82 points. As expected, the distribution is roughly uniform across individual sampling frames.

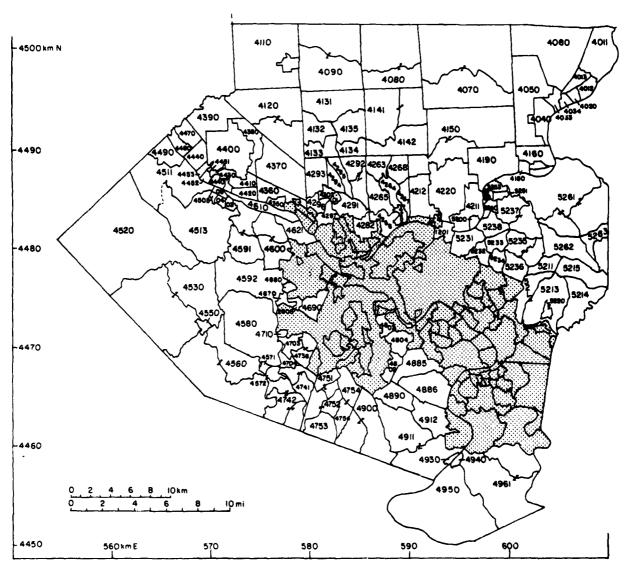


Figure 4. Census tracts for the Pittsburgh, Pennsylvania, area (after US Census Bureau 1980).

The census tract (TRACT) variable represents the distribution of sampled footprints within a given tract. A cluster of sample points is equally divided among census tracts 101, 201 and 2205 that correspond to the UCED (101, 2205) and the ULIC (201) sampling frames (Fig. 2 and 4). The remaining 80% of the sample points are distributed uniformly, ranging from 1 to 5 sample points for each of the remaining census tracts that were sampled.

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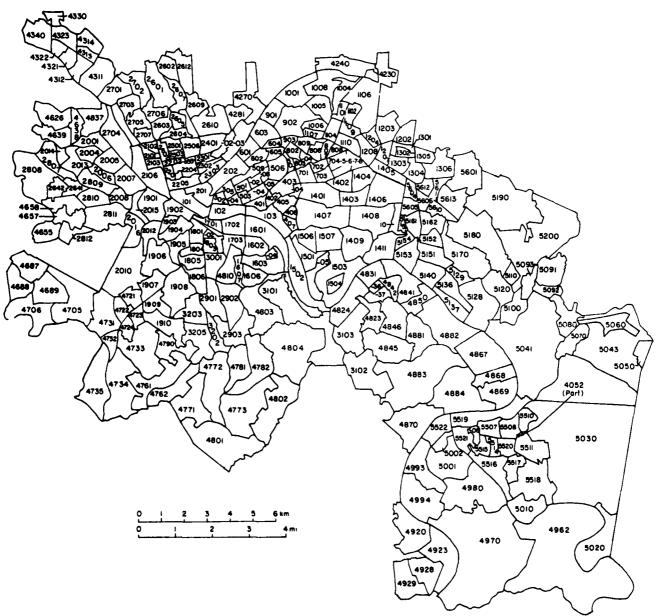


Figure 4 (cont'd).

The second section contains the Census Tract Data Variables from the U.S. Bureau of Census and the land areas within five land use classes derived from the U.S. Geological Survey GIRAS data base that correspond to the 190 sampled census tracts in Pittsburgh. There were eight variables, based on the 1980 census, coded into the Pittsburgh data base. Three of the variables included the total population in the census tract (POP), the total number of housing (dwelling) units in a census tract (DU) and the number of dwelling units in one-unit structures (UI). The U.S. Geological Survey combined several of the GIRAS land cover types into the following five land cover classes: the built nonresidential land use (ABNR), the built residential land use (ABR), the open land containing no buildings (AO), and the open land containing buildings (AOB). The land area values are in millions of square feet.

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The built residential category includes the level II urban category of residential (see Table 2). The built nonresidential category includes the urban categories of commercial and services, industrial, transportation, communications and utilities, industrial and commercial complexes, and the mixed urban or builtup land. The open land with buildings category includes the other urban or builtup land, and the entire level I agricultural, rangeland and forest land categories. The open land without buildings includes the level I categories of wetlands and barren land.

The tract population (POP) variable shows a maximum value of 14,257 people and a minimum population of 204 people per census tract. The average population per tract is 3375 people; however, the median tract population is 2633 people. The distribution is skewed right (skewness = 1.37) reflecting the larger than normal number of tracts (as compared to the normal distribution with equivalent mean and variance) whose population is below the average value.

The total dwelling units in a given tract varies from 1 to 4917 dwelling units. The average number of units per tract is 1320 with a standard deviation of 936 units. The average number of dwelling units in one-unit structures (U1) is 745 units. The range of dwelling units is large, ranging from 1 to over 3722 units. The 25 and 75% percentile values show that 50% of the tracts contain between 23 and 1089 units.

The remainder of the census tract variables in Appendix C represent the millions of square feet of land within the categories of built nonresidential (ABNR), built residential (ABR), open land without buildings (AO) and open land with buildings (AOB). In comparing the means of the above five variables, the majority of the land in Pittsburgh is built residential. Overall, the least amount of land was found in the category of built nonresidential, with an average value of 640,000 ft².

Third third section of Appendix C presents General Building Description Variables, including wall dimensions. Frequencies are tabulated using the 317 cases where buildings were observed. Variables include the approximate age of the structure (AGE), exposed walls in the footprint (EWIF), average wall height (HT), lot size (LOT1 and LOT2), number of buildings in the footprint (NBUILD), side dimensions (SIDE1 and SIDE2) and the building type (TYPE).

The first variable, AGE, represents the approximate age of the structure using the year 1900 as a base. For example, 1984 is shown as 84, 1900 as 0, and 1801 as -99. Less than 2% of the observed structures were built prior to 1900. Clustering occurs at decade intervals beginning from 1910 up to 1970. The majority of buildings were constructed from 1930 to 1940 (39%). The range of values shows a spread of 183 years in building age, a mean construction date of 1945, a median construction date of 1940, and the most frequently observed building construction date of 1930. The upper third of the building age distribution begins in 1960.

The exposed walls in footprint (EWIF) is the perimeter (in feet) of the buildings contained within the footprint. EWIF is recorded for use in calculating the area of building wall surfaces within a sampled footprint. Of the 317 structures sighted, 69% show EWIF values of 240 ft and below. The histogram indicates that the distribution is skewed to the right (skewness = 1.7) with a mean value of 269 ft and a median value of 140 ft. The percentiles indicate that 10% of the observed structures display EWIF values 754 ft and above. Most values, however, fall between 100 ft and 140 ft of exposure (48%).

The variable indicating average wall height in feet (HT) for a sampled structure is also provided in this section. Over a quarter of the buildings are 30 ft in height. Cumulative percents suggest that the majority of observed wall heights are below 45 ft (80%). Using 12 ft per story as an average, 9% of the observations are one-story structures, 39% two-stories and below and 80% three-stories and below. The median value of 30 ft

corresponds to an average building size of almost three stories. The standard deviation of 71 ft reflects the variance of tall buildings found in Pittsburgh relative to the maximum observed height of 690 ft.

Lot size (LOT1 and LOT2) represents the side dimensions (in feet) of the plot of ground surrounding the building being sampled. The person on the survey team estimated the lot size in the field by using markers, such as fences and the proximity of adjacent buildings. The average length and width lot dimensions were 109 and 103 ft respectively. The most frequently occurring lot dimension was 50 ft. The percentiles show that 67% of the lot dimensions were 100 ft and below. The overall range of length and width lot dimensions was 735 and 580 ft respectively.

The variable NBUILD was added to the data set to represent the total number of buildings within a footprint (useful only if multiple structures were observed within a single footprint). About 25% of the footprints contained one building; 96% of the footprints contained eight buildings or less. The average number of buildings found within a footprint was four.

The variables SIDE1 and SIDE2 are the length and width dimensions (in feet) of the building. The average building dimensions are 85 and 71 ft respectively. The range in dimensions is up to 785 ft for SIDE1 and 486 ft for SIDE2. The most frequently occurring dimensions are 20 ft for SIDE1 and 30 ft for SIDE2. Both distributions are skewed to the right (with respective skewness values of 3.4 and 2.7) suggesting a greater frequency of smaller-sized buildings. (The median sizes are nearly half their respective means.)

The building type classification (TYPE) is useful in determining the distribution of individual structures by their type or use. In the frequency distribution, 71 of the 388 sampled footprints (18%) resulted in no structures being observed (Table 3). Of the footprints containing buildings (317), almost half were found to be one-unit residential structures. Other significant building types included commercial (20%), office (7%), industrial (6%), 2-unit residential housing (4%), and other building type categories (4%). Multiple unit housing (2-50 units) did not predominate in the parts of Pittsburgh that we sampled.

Actual Spatial Areas of Building Material Types are presented in the fourth section of Appendix C for the five composite building material

Table 5. The 21 material types grouped into five material types.

APAINT

Painted wood (excl. stained)
Painted steel
Painted aluminum
Painted masonry
Painted concrete
Painted stucco
Painted other material
Painted other material (cannot identify)

AMORT

Bare brick
Bare block
Bare field stone

ASTONE

Bare marble Bare limestone Bare granite

AGALV

Bare galvanized steel

AOTHER

Bare wood (incl. stained)
Bare concrete
Bare glass
Bare vinyl
Bare other material
Bare other material (unidentifiable)

classes recommended by the Interagency Task Force.* These areas represent the square feet of building surface walls potentially exposed to acid deposition. The five composite building materials that were computed are painted materials (APAINT), mortar-masonry (AMORT), stone materials (ASTONE), galvanized metal (AGALV) and all other materials (AOTHER). From the original building worksheet (Appendix A), the 21 material types were combined into the five categories (Table 5).

In the structures sampled, 5% were found to have no exposed painted walls (APAINT). Across the five sampling frames, a mean exposure of 6402

^{*} Personal communication with F. Lipfert, Brookhaven National Laboratory, 1984.

 ${\rm ft}^2$ and a median of 826 ${\rm ft}^2$ was observed. The standard deviation of 20,914 ${\rm ft}^2$ reflects the wide range of exposures among individual structures, ranging from a minimum of nothing to a maximum of 215,219 ${\rm ft}^2$. The distribution is significantly skewed to the right (skewness = 6.6) and is <u>far</u> more peaked (kurtosis = 52.7) than a normal distribution with a similar mean and standard error. The histogram illustrates the predominance of exposures around the 5119-ft² midpoint (75% of the exposures are below the 3000 ${\rm ft}^2$ level).

Areas of exposed mortar-masonry material (AMORT) were observed on 276 structures, indicating that 13% of the footprints with buildings had no mortar-masonry exposure (of the total 388 sampled footprints, 71% had mortar-masonry walls). The mean mortar-masonry surface area (6385 ft²) is higher than the median exposure (2088 ft²), reflecting the skewness (5.0) of the distribution to the right. The 141,410 ft² range of mortar-masonry surface areas illustrates the large variability in exposure (standard deviation is 14,518 ft²). The percentile values indicate that 75% of the structures have exposures ranging from nothing to 4055 ft². Only 10% of the structures had exposures greater than 18,359 ft². As in the painted materials exposure, the mortar-masonry distribution is centered about smaller exposure values near the 3000-ft² level.

The distribution of exposed wall areas in bare stone materials (ASTONE) indicates that 60% of the sampled footprints with buildings had no bare stone exposure. Furthermore, cumulative frequencies suggest that 75% of those structures contained exposures below 323 $\rm ft^2$. The summary statistics show that the mean level of exposure is 605 $\rm ft^2$ with a standard deviation of 1824 $\rm ft^2$. The median and mode values were 0, and the maximum exposed surface area was 13,756 $\rm ft^2$.

The lowest level of material exposure for the structures sampled was found within the bare galvanized steel category (AGALV). Of the 317 footprints with buildings, 23 structures were composed of some portion of bare galvanized steel. Of the sampled footprints with buildings, 93% had no galvanized steel exposure. The summary statistics show a median and mode of 0, with a mean exposure of 3104 ft². The maximum exposed surface area was 500,319 ft².

The fifth composite material class is the remaining materials category, AOTHER, that includes all other materials not classified into the above categories. Frequencies indicate that 41% of the footprints with structures contained no material in the AOTHER category, and the distribution of AOTHER materials is relatively uniform and non-clustering. The percentile values indicate that 75% of the other materials exposure is below the 546-ft² level. The 90th percentile rises to a maximum exposure for an individual building of 2249 ft² and above.

The fifth section in Appendix C is the <u>Roof Material and Roof-Mounted</u>
<u>Apparatus Items and Material Types</u> section and related variables of exposed chimney area (CAREA), chimney material (CMAT), exposed roof area (ESAREA), roof material (ERMAT), roof slope (SLOPE) and the roof-mounted apparatus items (ITEM1, ITEM2, SKYM, RMAT, FLMAT, FLAREA) for the 317 observed buildings.

The mean surface area of an observed chimney (CAREA) is 75 ft² with a standard deviation of 124 ft². The mean and mode chimney exposure area is 0, reflecting the large absence of chimneys in the sampled area (50.5% without chimneys). When examining the chimney materials (CMAT), one notes that almost all of the observed chimneys (95%) are constructed of brick. A remaining 4% are either painted or of stone composition, with roughly 1% of the chimneys composed of other materials.

The exposed surface area of the roof (ESAREA) shows a wide range of values, from 90 $\rm ft^2$ to nearly 1 million $\rm ft^2$. The mean surface area observed was 17,638 $\rm ft^2$, with 768 $\rm ft^2$ being the most frequently found roof area. The standard deviation is quite high at 72,870 $\rm ft^2$. The percentile values indicate that 75% of the roof areas are less than 7100 $\rm ft^2$. The histogram is strongly skewed right, reflecting the prevalence of observed surface areas at about the 23,900- $\rm ft^2$ level and below.

The roof material (ERMAT) is predominantly asphalt shingles (55%) or tar roof (38%) construction, with two thirds of the roofs being sloped, rather than flat (as indicated by the SLOPE variable).

There were 190 items recorded under ITEM1, the number of vents, flues and stacks (127 structures contained no items). These items were principally composed of painted material (see RMAT).

Only one building with skylights was observed in Pittsburgh. It had 10 skylights (ITEM2, SKYM), made of bare aluminum.

Six buildings with flashing material, FLMAT, were recorded (98% of the sampled structures had no flashing material). The flashings were painted,

bare galvanized and made of other materials. The flashing area (FLAREA) ranged from 200 ft² to over 999 ft².

The sixth section presents the variables of Rain Gutters, Downspouts and Fences for the 317 sampled structures. Rain gutters (RGMAT) and downspouts (DSPOUT) were found on 194 structures (61% of the structures). Over half of the rain gutters and downspouts were painted. The average length of a rain gutter (RGLENGTH) was 63 ft, and for a downspout (DSLENG) the average length was 38 ft. A standard deviation of 102 ft was observed for the rain gutters. The standard deviation was smaller for the downspouts (53 ft).

There were 31 fences (FENCE) observed within the sampled footprints (10% of the observed structures). The material types were equally divided among bare galvanized chain link, painted wood and other material types. Fence length and height were recorded in the field, but were multiplied together to obtain the fence area variable (FAREA). This did not take into account any open areas within the fence. The average fence area was 46 ft² with a standard deviation of 190 ft².

CONCLUSIONS

A building materials sampling program for the Pittsburgh, Pennsylvania, area was conducted from December 1984 to February 1985. A stratified, systematic, unaligned random sampling procedure was used to generate sample points across four sampling frame areas. Using this procedure, a total of 388 points representing a minimum of 82 sample footprints per frame were surveyed. A diversity of data was taken on building size and surface material, roof characteristics and roof apparatus, chimneys, gutters, downspouts and fences. The Pittsburgh data are summarized according to overall material distribution by structure.

A summary table for the five composite materials exposures is provided in Table 6. The median exposures suggest that two of the principal categories, AGALV and ASTONE, rarely occur in the Pittsburgh sample. In addition, the percentage of structures not exhibiting these materials illustrates the prevalence of painted and mortar surfaces in the five sampling frames. Inner quartiles suggest that 50% of the observations about the median varied from zero to 546 ft² or less in three of the principal categories (AGALV, ASTONE and AOTHER). These findings, together with previous

field sampling in New Haven (Merry and LaPotin 1985b), indicate that additional or different composite material classes should be used to adequately categorize the distribution of building materials exposed across the five sampling frames (and between cities). In particular, the two categories of AGALV and ASTONE should be reclassified to allow for other material composite groups that appear with greater frequency.

Table 6. Summary statistics of the five composite material types.

Composite material class	Mean exposure (ft ²)	Median exposure (ft ²)	Inner quartile 50% about the median (ft ²)	Range (ft ²)	Percentage of structures not exhibiting the material (%)
APAINT	6402	826	281 to 2969	215,219	5
AMORT	6385	2088	559 to 4055	141,410	13
ASTONE	605	0	0 to 323	13,756	60
AGALV	3104	0	0 to 0	500,319	93
AOTHER	5370	25	0 to 546	213,222	41

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APPENDIX A: DATA

Listing of UTM coordinates for each sample point

	UTH East	UTM North	CENS	m	UTH	East	UTM North	CENS	<u>m</u>
,	583880.	4477130.	101	17	76. 583	2510	4477580.	2245	12
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19.	584990.	4476700.	101	12	12. 589	100.	4477360.	404	12
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21.	585140.	4476621.	101	12	14. 587	7660.	4476191.	498	13
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62.	584060.	4477809.	2205	12	55. 597		4469901.	4867	11
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71.	584249.	4477651.	2205	13	64. 595		4472659.	5137	12
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29.	584260.	4464930.	4754	17	98. 578849.	4485611.	4379	11
30.	583330.	4463190.	4754	11	09. 574000.	4491070.	4389	21
31.	582330.	4461961.	4754	11	10. 567591.	4483470.	4513	11
32.	583760.	4468059.	4771	11	11. 567240.	4481041.	4513	21
	585870.	4466901.	4772	11	12. 564379.	4482169.	4520	14
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	586800.	4472220.	4803	11	14. 566730.	4470020.	4560	11 21
	588660.	4470990.	4894	11	15. 569500. 16. 575750.	44663 99. 446583 9.	456 0 456 0	21
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13. 549740.	4460210.	7210	21	47. 58323 0.	4448520.	7616	21
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22. 550730.	4448050.	7310	21	56. 582790.	4432469.	762 8	21
23. 555379.	4446100.	7310	21	57. 58968Ø.	44386 49.	7637	21
24. 550090.	4444300.	7310	21	58. 6899 51.	4443479.	8962	21
25. 541450.	4444149.	7316	21	59. 63331 0 .	445338 0.	8 976	21
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	footprint (rg)						
	Photo ID	<u> </u>						

ROOFS

44	Material: ar,1 asphalt shingle,2 wood,2 painted metal,4 bare galvanized,6 tile,4 slate,7 copper,4 < ther4 (), cannot identify14										
46	Sloped	j' c flat²									
40-81	Surface a ea (aq ft)										
		R	OOF-MOUNTE	D APPARATUS							
62		Vents, flues, and stacks: painted,* bare galvanized,* bare aluminum,* other* (
53-54	Numb	_ Number of items									
65		Skylights (framing): painted, bare galvanized, bare aluminum, other (), cannot identify.									
84-97	Numb	Number of skylights									
•		Flashing: painted, ¹ bare galvanized, ² bare aluminum, ² other ⁴ (), cannot identify ⁴ Area (sq ft)									
80-01	Area (
			CHIMA	IEYS							
92	Mater										
83-86											
			DAIN OU								
87	**-*		RAIN GU								
		Material: painted,1 bare galvanized,2 vinyi,2 copper,4 other5 (), cannot identify5Length (ft)									
	Lengti	1 (11)									
			DOWNS	POUTS							
71	Mater	ai: painted,1 i	bare galvanized	l,² vinyl,³ copper,⁴ other⁴).	cannot identii	ly•				
78-74	Lengti	ingth (ft)									
			FENC	E\$							
76				ik,¹ bare galvanized stoc ther* (), cann		orick,4 concre	le				
78-78	Lengti	_ Length (ft)									
79-90	Heigh	Height (ft)									
		Well area (9/)			Well area (%)						
		Wall area (%)	All stories			Well eres (76)	All stories				
	Foundation	1st story	above 1st		Foundation	fat story	ebove fet				
Painted walls				12. Brick							
1. Wood (excl. stained				13. Block							
2. Steel				14. Field stone							
3. Aluminum				15. Marble							
4. Masonry				16. Limestone							
5. Concrete				17. Granite							
6. Stucco				18. Glass							
7. Other ()				19. Vinyl							
8. Cannot Identify				20. Other ()							
Born make				21. Cannot Identify							
Sere wells											
9. Wood (incl. stained)				Tota	100	100	100				
10. Galvanized steel											
11. Concrete											

Procedures used to check the data

The data were checked several ways to ensure that the data base was correct. A major check of the material type percentages and the EWIF value was done before printing a frequency run of the entire data set.

The percentage check was done by summing the percentage of material types for the three stories of the building. We needed to ensure that the sum of all material types was 100%. Also, during the same computer run, we checked to see that every building had a foundation. (In some cases, the field team had not recorded a foundation.) For these cases, the photograph of each building was examined to determine the material type of the foundation. We assumed 12 ft for the first story component of the building. In addition, during the same computer run, we would print out cases where the building height was greater than 14 ft (assuming 2 ft for the foundation and 12 ft for the first story) and there were no percentages recorded for the second and above stories.

The EWIF value was compared against the lot size and the building side dimensions. A printout of these values was obtained for every building. We assumed that the building sides were the square root of the exposed roof area and would check to make sure that the EWIF was not larger than the building sides. There was also a check to ensure that the building was not larger than the lot size dimensions.

Several hand calculations were done for the building surface areas and compared against the computer-calculated surface areas. These values had to be consistent for different types of materials percentages for a given building.

The frequency runs were checked for a number of items. The number of downspouts had to be the same as the number of rain gutters.

The empty footprints were noted for each sampling frame and verified against the number of buildings expected for each sampling frame.

The tally of land use and census tract numbers also had to be correct for each sampling frame. The number of roof areas had to equal the number of buildings.

The number of cases had to be the same for a given accessory. For example, the number of material types and the surface area values had to be the same for the variables of roofs, fences, downspouts, rain gutters and roof-mounted apparatus. Although not every building had all these compon-

ents, if the value was recorded, then each material type had to have a corresponding surface area.

Strange or unexpected numbers for all the variables were always doublechecked against the building worksheets. For example, the EWIF values were always fairly even in value or divisible by 5. Any unusual numbers or large numbers were doublechecked, not only for the EWIF, but for the other variables as well.

APPENDIX B. LISTING OF PROGRAM FOR DETERMINING THE FOOTPRINT SIZE FOR EACH SAMPLING FRAME

```
program FootSize (input, output);
[Footsize is a simple program for calculating footprint size for other]
(sampling frames based on some assumptions placed in the UCBD. The)
[following assumption pertain to the UCBD:]
[1. The sample size will be 107, allowing for empty footprints in 35% of]
(the sampled locations.)
(2. The alpha or proportionality coefficient, used to scale the remaining)
(sampling frames will be set to ensure that 30% of the spacial area)
(remains open in the UCBD)
 const
  size = 107:
                                     (sample size in the UCBD)
                                    (* of sampling frames)
  frames = 6;
  alpha = 0.046752;
                                    (proportionality coefficient derived)
                   (from the 30% open area in the UCBD)
[density coefficients by SFrame location...change these for each city]
  dUCBD = 5.2e-5:
  dULIC = 7.2e-5:
  dUMFR = 11.7e-5;
  dUSFR = 2.16e-5:
  dNSUB = 0.37e-5:
  dNRUR = 0.109e-5:
[*******************]
  footFt, footM : integer;
                                     (footprint size in both Feet and Meters)
   Alabel: str255;
                                     (A labeler for the sampling frames)
   i : integer;
                                    [some counter variable OK?]
 function density (frame : integer) : real;
(A simple function to return the density values to the main loop, it also)
(sets a labeler to be used in the final output table.)
 begin
   case frame of
    1:
     begin
      density := dUCBD;
      Alabel := 'UCBD: ':
     end:
    2:
```

```
begin
     density := dULIC;
     Alabel := 'ULIC: ';
    end:
   3:
    begin
     density := dUMFR;
     Alabel := 'UMFR: ';
    end:
   4:
    begin
     density := dUSFR;
     Alabel := 'USFR: ';
    end;
   5:
    begin
      density := dNSUB;
      Alabel := 'NSUB: ';
    end;
   6:
    begin
      density := dNRUR;
      Alabel := 'NRUR: ';
    end:
   otherwise
  end: (Case frame of)
 end; (Adensity)
begin (main)
(Label the simple table and calculate the footprint sizes, first in feet)
(and then in meters. Print back out the label, density, and footprint)
(sizes on the current textport window)
 writein('
              DENSITY
                           < FOOT>');
 showText;
 for i := 1 to frames do
  begin
    if density(i) > 0 then {check first to see if density > 0}
      footFt := round(sqrt(alpha * size / density(i)));
       footM := round(sqrt((alpha * size / density(i)) / 10.76));
       writeln(Alabel, density(i): 5, footFt: 5, 'ft', footM: 5, 'm');
```

```
end
else
writeln(Alabel, 'undef undef undef');
end;
end.
```

			lest	
	SEBS (TV	FQ.	OT -	<u>ت</u>
UC60:	5.2e-5	310ft	95m	1
ULIC:	7.2e-5	264ft	გმო	1
UMFR:	1.2e-4	207ft	63m]
USFR:	2.2e-5	481 ft	147m	
NSUB:	3.7e-6	1163ft	3 54m	l
NRUR:	1.1e-6	2142ft	653m	ĺ
ļ				
				<u> </u>
1				엏
				 <u>[</u> 9

APPENDIX C: RESULTS OF THE FREQUENCY ANALYSIS

Description of the variables

Variable name	Brief description	Detailed description
LO	Land use designation	U.S. Geological Survey land use classification, where: 11 = residential, 12 = commercial and services, 13 = industrial, 14 = transportation, communications and utilities, 15 = industrial and commercial complexes, 16 = mixed urban or builtup land, 17 = other urban and or builtup land, 21 = cropland and pasture, 22 = orchard, groves, vineyards, nurseries and ornamental agricultural areas, 23 = confined feeding operations, 24 = other agricultural land, 31 = herbaceous rangeland, 32 = shrub and brush rangeland, 33 = mixed rangeland, 41 = deciduous forestland, 42 = evergreen forestland, 43 = mixed forestland, 51 = streams and canals, 52 = lakes, 53 = reservoirs, 54 = bays and estuaries, 61 = forested wetland, 62 = nonforested wetland, 71 = dry salt flats, 72 = beaches, 73 = sandy areas other than beaches, 74 = bare exposed rock, 75 = strip mines, quarries, and gravel pits, 76 = transitional areas, 77 = mixed barren land.
SFRAME	Sampling frame	Sampling frame, see Figure 2, where:
		1 = UCBD 2 = ULIC 3 = UMFR 4 = USFR 5 = NSUB 6 = NRUR
SPOINT	Sample point number	Sampling point number within sampling frame.
TRACT	Census tract	Census tract number, see Figure 4.
POP	Tract population	Total population in census tract.
טמ	Total dwelling units in tract	Total number of housing units in census tract.
V1	One unit struct	Number of dwelling units in one-unit structures in census tract.
ABNR	Area of built non-residential	Land area of census tract in built non-residential, millions of ft^2 .
ABR	Area of built residential	Land area of census tract in built residential, millions of ft^2 .
AO	Area, open land without build- ings	Land area of census tract in open without buildings, millions of ft^2 .
AOB	Area, open land with buildings	Land area of census tract in open with buildings, millions of ft^2 .
AGE	Approx. age of structure	Approximate age of the building. 1900 is the base year (year 0). To obtain age, add the value to 1900. Ages less than 1900 are coded as negative values.

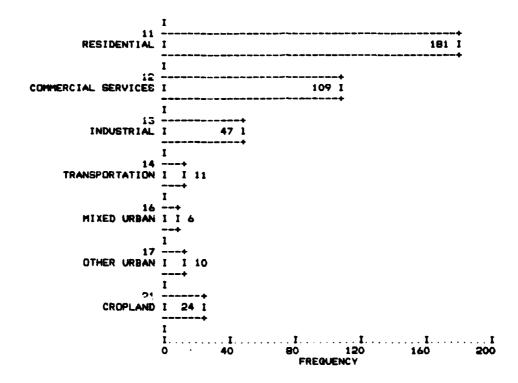
EWIF	Exposed wall in footprint	Exposed walls within a given footprint, ft.
HT	Average wall height	Average building height, ft.
LOTI	Lot size, side one	Lot size of one side associated with sampling point, ft.
LOT2	Lot size, side two	Lot size of the other side associated with sampling point, ft.
NBUILD	Number of buildings in footprint	The total number of buildings within the footprint.
SIDE1	Side one of building	Dimensions of one side of the building, ft.
SIDE2	Side two of building	Dimensions of the other side of the building, ft.
TYPE	Structure type- usage	Value label assigned to structure, where: 0 = no building, 1 = 1 housing unit, 2 = 2 housing units, 3 = 3 to 4 housing units, 4 = 5 to 9 housing units, 5 = 10 to 19 housing units, 6 = 20 to 49 housing units, 7 = 50 or more housing units, 8 = office buildings, 9 = commercial buildings, 10 = industrial buildings, 11 = educational building, 12 = religious building, 13 = health related buildings, 14 = farm, 15 = other buildings, 16 = cannot identify building.
APAINT	Area of painted surface	The total surface area of the building containing painted materials, ft^2 .
AMORT	Area of mortar- masonry surface	The total surface area of the building containing mortar and masonry materials, ft^2 .
ASTONE	Area of stone surface	The total surface area of the building containing stone materials, ft^2 .
AGALV	Area of galvan- ized surface	The total surface area of the building containing galvanized material, ft^2 .
AOTHER	Area of other materials	The total surface area of the building containing all other materials, ft ² .
CAREA	Exposed chimney area	Exposed surface area of chimney above roof, ft ² .
CMAT	Chimney material	Chimney material type, where: $0 = no$ chimney observed, $1 = painted$, $2 = brick$, $3 = stone$, $4 = other chimney material, and 9 = cannot identify chimney material.$
ESAREA	Area of exposed roof	Exposed roof area of building, ft ² .
ERMAT	Roof material type	Exposed roof material, where: 0 = no roof observed, 1 = tar, 2 = asphalt shingle, 3 = wood, 4 = painted metal, 5 = bare galvanized, 6 = tile, 7 = slate, 8 = copper, 9 = other roof material, and 10 = cannot identify roof material.

SLOPE	Indicator of roof slope	Roof configuration: 0 = no roof observed, 1 = sloped, 2 = flat.
ITEM1	No. of vents, flues, stacks	Number of roof-mounted apparatus
ITEM2	No. of skylights	Number of skylights.
SKYM	Skylight material	Framing material type of skylights where: 0 = no framing material of skylights observed, 1 = painted, 2 = bare galvanized, 3 = bare aluminum, 4 = other material types, and 9 = cannot identify material type.
RMAT	Roof apparatus material	Material type of roof-mounted apparatus, where: $0 = \text{no roof}$ apparatus material, $1 = \text{painted}$, $2 = \text{bare galvanized}$, $3 = \text{bare alumimun}$, $4 = \text{other roof-mounted apparatus material}$, and $9 = \text{cannot identify roof-mounted apparatus material}$.
FLMAT	Flashing material	Flashing material type, where: 0 = no flashing material observed, 1 = painted, 2 = bare galvanized, 3 = bare aluminum, 4 = other flashing material, and 9 = cannot identify flashing material.
PLAREA	Flashing area	Flashing surface area, ft ² .
RGMAT	Rain gutter material	Rain gutter material type, where: 0 = no rain gutters observed, 1 = painted, 2 = bare galvanized, 3 = vinyl, 4 = copper, 5 = other rain gutter material, and 9 = cannot identify rain gutter material.
RGLENGTH	Rain gutter length	Total length of rain gutters, ft.
DSPOUT	Material of downspout	Downspout material type, where: 0 = no downspout observed, 1 = painted, 2 = bare galvanized, 3 = vinyl, 4 = copper, 5 = other downspout material, and 9 = cannot identify downspout material.
DSLENG	Downspout length	Length of downspout, ft.
FENCE	Fence type	Fence material type, where: 0 = no fences observed, 1 = bare galvanized chain link, 2 = bare galvanized stock, 3 = painted fence, 4 = brick, 5 = concrete block, 6 = field stone, 7 = bare wood, 8 = other fence material, and 9 = cannot identify fence material.
PAREA	Fence area	Area of fence, ft ² .

Major classification variables

LU LAND USE DESIGNATION

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
RESIDENTIAL	11	181	46. 6	46.6	46. 6
COMMERCIAL SERVICES	12	109	28. 1	28. 1	74. 7
INDUSTRIAL	13	47	12. 1	12. 1	86.9
TRANSPORTATION	14	11	2. 8	2.8	89. 7
MIXED URBAN	16	6	1. 5	1. 5	91. 2
OTHER URBAN	17	10	2.6	2. 6	93. B
CROPLAND	21	24	6. 2	6. 2	100. Q
	TOTAL	388	100 0	100. 0	



LU	LAND USE DES	IONATION			
MEAN MODE KURTOSIS S E SKEN MAXIMUM	12.459 11.000 5.526 .124 21.000	STD ERR STD DEV S E KURT RANGE SUM	. 129 2. 532 1. 995 10. 000 4834. 000	MEDIAN VARIANCE SKEWNESS MINIMUM	12.000 6.409 2.502 11.000
PERCENTILE	VALUE	PERCENTILE	VALUE	PERCENTILE	VALUE
10.00 50.00 90.00	11.000 12.000 16.000	25, 00 66, 70	11. 000 12. 000	33. 30 75. 00	11. 000 13. 000
VALID CASE	S 388	MISSING CAS	SES 0		

SFRAME SAMPLING FRAME

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
UCBD	i	82	21.1	21. 1	21. i
ULIC	2	99	25. 5	25. 5	46.6
UMFR	3	105	27. 1	27. 1	73. 7
USFR	4	102	26. 3	26. 3	100.0
	TOTAL	388	100.0	100. 0	
	ı				
1		+			
UCBD	I	82 I			
		+			
	I				
5			-+		
ULIC	I	99	I		

	3			+	
	UMFR	1	105	I	
	_	I		•	
	USFR		102	1	
		I I	1	·+ I	I I
		0 40	80	120 16	
			FREGU	ENCY	
MEAN	2. 585	STD ERR	. 055	MEDIAN	3.000
MODE	3.000	STD DEV	1.093	VARIANCE	1. 194
KURTOSIS	-1.292	S E KURT	1. 995	SKEWNESS	 099
S E SKEW	. 124	RANGE	3.000	MINIMUM	1.000
MAXIMUM	4. 000	SUM	1003. 000		
PERCENTILE	VALUE	PERCENTILE	VALUE	PERCENTILE	VALUE
10.00	1.000	25. 00	2. 000	33. 30	2. 000
50.00	3.000	<i>6</i> 6. 70	3,000	75.00	4.000
90.00	4 000				
UAL ID CASES	388	MISSING CA	SES O		

SPOINT	S	4MPLE	E PO	INT NL	JMBER .							
				CUM				CUM				CUM
VALU	E (FREG	PCT		VALUE	FREG	PCT		VALUE	FREG	PCT	
	1	4	1	1	36	4	1	37	71	4	1	73
	2	4	1	2	37	4	1	38	72	4	1	74
	3	4	1	3	38	4	1	39	73	4	1	75
	4	4	1	4	39	4	1	40	74	4	1	76
	5	4	1	5	40	4	1	41	75	4	1	77
	6	4	1	6	41	4	1	42	76	4	1	78
	7	4	1	7	42	4	1	43	77	4	1	79
	8	4	1	8	43	4	1	44	78	4	1	80
	9	4	1	9	44	4	1	45	79	4	1	81
1	0	4	1	10	45	4	1	46	80	4	1	85
1	1	4	1	11	46	4	1	47	81	4	1	84
1	2	4	1	12	47	4	1	48	82	4	1	85
1	3	4	1	13	48	4	1	49	83	3	1	85
1	4	4	1	1.4	49	4	1	51	84	3	1	96
1	5	4	1	15	50	4	1	52	85	3	1	87

۶F	GINT	SAMPLE	E PO	INT NU	IMBER								
				CUM				CUM				CUM	
	VALUE	FREG	PCT	PCT	VALUE	FREG	PCT	PCT	VALUE	FREG	PCT	PCT	
	16	4	1	16	51	4	1	53	86	3	1	88	
	17	4	1	18	52	4	1	54	87	3	1	88	
	18	4	1	19	53	4	1	55	88	3	1	89	
	19	4	1	20	54	4	1	56	89	3	1	90	
	20	4	1	21	5 5	4	1	57	90	3	1	91	
	21	4	1	22	56	4	1	58	91	3	1	91	
	22	4	1	23	57	4	1	59	92	3	1	92	
	23	4	1	24	58	4	1	60	93	ā	1	93	
	24	4	1	25	59	4	1	61	94	3	1	94	
	25	4	1	26	60	4	1	62	95	3	1	95	
	26	4	1	27	61	4	1	63	96	3	i	95	
	27	4	1	28	62	4	1	64	97	3	1	96	
	28	4	1	29	63	4	1	65	98	3	1	97	
	29	4	1	30	64	4	1	66	99	3	1	98	
	30	4	1	31	65	4	1	67	100	ž	1	78	
	31	4	1	32	66	4	1	68	101	2	1	99	
	32	4	1	33	67	4	1	69	102	- 2	1	99	
	33	4	1	34	68	4	1	70	103	1	ō	99	
	34	4	1	35	69	4	1	71	104	ī	ŏ	100	
	35	4	1	36	70	4	i	72	105	1	ŏ	100	

SPGINT SA	MPLE POIN	ut mimbee	
			-11050
COUNT	MIDPOINT	ONE SYMBOL EQUALS APPROXIMATELY . 40 OCCURRE	ENCES
20	3	*******************	****
20	ē	*********	***
20	13	******	***
20	18	*************	***
20	23	************	****
50	56		****
50	33	******	***
50	36	**************	***
20	43	*****	***
20	48		***
20	5 3		****
20 20	56 63		
20	68		****
20	73	***********************************	
20	78 78		****
17	83	***	
15	58	*****	
15	9 3	****	
14	96	******	
7	103	***	
			I
		0 4 8 12 16	20
		HISTOGRAM FREQUENCY	
MEAN	49, 410	STD ERR 1 457 MEDIAN 49 00	_
MEAN MODE	1,000	STD ERR 1 457 MEDIAN 49 000 STD DEV 26 694 VARIANCE 823.356	
KURTOSIS	-1.126	S E KURT 1 995 SKEWNESS .06	
S E SKEW	124	RANGE 104.000 MINIMUM 1.000	
MAXIMUM	105 000	SUM 19171 000	,
T:FIX ETTOTT	103 000	5011	
PERCENTILE	VALUE	PERCENTILE VALUE PERCENTILE VALUE	E
10 00	10.000	25.00 25.000 33.30 33.00	D
50 00	49.000	66 70 65 000 75 00 73 00	
90.00	90.000		-
VALID CASES	388	MISSING CASES 0	

CUM CUM VALUE FREG PCT PCT VALUE FREG PCT	CUM
101 29 7 1601 1 0 35 4637 2 1	60
102	60 61
202 4 1 16 1703 2 1 37 4705 1 0	61
302 1 0 17 1801 1 0 37 4710 2 1	62
305 1 0 17 1901 2 1 37 4734 1 0 401 1 0 17 1903 2 1 38 4736 1 0	62 62
403 3 1 18 1904 1 0 38 4741 2 1	63
404 2 1 19 1906 1 0 39 4742 1 0	63
407 1 19 1908 1 0 39 4751 1 0 408 2 1 19 1910 1 0 39 4752 2 1	63 64
501 3 1 20 2007 1 0 39 4753 2 1	64
505 2 1 21 2010 3 1 40 4754 4 1	65
508 1 0 21 2016 2 1 40 4771 1 0 509 2 1 21 2106 2 1 41 4772 1 0	65 66
601 1 0 22 2205 24 6 47 4782 1 0	66
602 1 2 22 2506 1 0 47 4801 2 1	66
603 1 0 22 2607 1 0 48 4802 1 0 701 1 0 22 2610 1 0 48 4803 1 0	67 67
702 2 1 23 2702 2 1 48 4804 2 1	68
703 2 1 23 27(4 1 0 49 4823 1 0	68
706 1 0 24 2805 3 1 49 4831 2 1 707 1 0 24 2808 2 1 50 4841 1 0	68 69
803 3 1 25 2902 1 0 50 4845 1 0	69
804 1 0 25 2903 1 0 51 4867 2 1	69
807 1 0 25 3202 1 0 51 4883 2 1 809 3 1 26 4012 1 0 51 4884 2 1	70 70
901 1 0 26 4080 4 1 52 4885 1 0	71
1001 1 0 27 4100 1 0 52 4890 1 0 1106 3 1 27 4120 3 1 53 4900 1 0	71
1106 3 1 27 4120 3 1 53 4900 1 0 1110 1 0 28 4133 1 0 53 4912 1 0	71 71
1201 3 1 28 4172 1 0 54 4923 2 1	72
1202 1 0 29 4220 1 0 54 4962 3 1	73
1203 2 1 29 4250 1 0 54 4994 1 0 1208 2 1 30 4266 1 0 54 5080 2 1	73 73
1301 1 0 30 4311 1 0 55 5091 1 0	74
1305 2 1 30 4340 1 0 55 5100 2 1	74
1401 3 1 31 4350 1 0 55 5128 1 0 1403 2 1 32 4452 1 0 55 5136 2 1	74 75
1404 2 1 32 4480 3 1 56 5137 2 1	76
1405 1 0 32 4490 1 0 56 5140 3 1	76
1406 5 1 34 4503 1 0 57 5151 1 0 1411 1 0 34 4504 1 0 57 5152 1 0	77 77
1501 1 0 34 4c00 2 1 57 5153 1 0	77
1503 1 0 35 4610 3 1 58 5170 1 0	77
1506 1 0 35 4621 4 1 59 5190 1 0	76
TRACT CENSUS TRACT	
CUM VALUE FREG PCT PCT VALUE FREG PCT VALUE FREG PCT	PCT
5212 1 0 78 6041 3 1 85 8025 1 0	92
5213 1 0 78 6042 2 1 86 8028 1 0 5231 1 0 78 6043 4 1 87 8029 1 0	92 93
5251 1 0 79 6046 1 0 87 8033 2 1	93
5252 2 1 79 7414 3 1 88 8034 2 1 5260 1 0 79 7421 1 0 88 8035 3 1	94 94
5262 1 0 79 7421 1 0 88 8035 3 1 5507 1 0 80 7441 1 0 88 8037 1 0	95
5508 1 0 80 7451 1 0 89 8041 1 0	95
5516 2 1 80 7461 1 0 89 8045 4 1 5521 1 0 81 7511 1 0 89 8047 4 1	96 97
5521 1 0 81 7511 1 0 89 8047 4 1 5522 1 0 81 7512 1 0 89 8048 5 1	98
6009 1 0 81 7527 1 0 90 8054 1 0	
6013 1 0 81 7640 1 0 90 8055 1 0 6019 1 0 82 7731 1 0 90 8060 2 1	99 99
6019 1 0 82 7731 1 0 90 8060 2 1 6020 4 1 83 7751 2 1 91 8078 2 1	100
6021 3 1 84 7831 2 1 91 8082 1 0	100
6032 1 0 84 8010 1 0 91 6034 3 1 85 8011 1 0 92	

COUNT	MIDPOINT	ONE SYMBOL EQUALS APPROXIMATELY 1.50 OCCURRENCES
75	282	
26	663	******
14	1044	***
24	1425	*****
12	1806	*****
32	2197	*******
6	2548	***
7	2949	****
1	3330	*
0	3711	
14	4072	*****
2 2	4473	****
50	4854	*****
25	5235	****
6	5616	***
24	5997	****
0	6378	
0	6759	
٥	7140	
11	7521	****
56	7902	****
		I+

TRACT	CENSUS TRACT				
MEAN MODE KURTOSIS S E SKEW MAXIMUM	3380. 433 101. 000 -1. 159 . 124 8082. 000	STD ERR STD DEV S E KURT RANGE SUM	132. 521 2610. 363 1. 995 7981. 000 1311608. 00	MEDIAN VARIANCE SKEWNESS MINIMUM	2855. 000 6813994. 88 . 299 101. 000
PERCENTIL	E VALUE	PERCENTIL	E VALUE	PERCENTIL	E VALUE
10.00 50.00 90.00	201: 000 2855: 000 7733: 000	25. 00 66. 70	804. 750 4802. 463	33. 30 75. 00	1406. 000 5136. 750
VALID CASE	ES 388	MISSING C	ASES 0		

Census tract data

FOR TRACT POPULATION

VALUE	FREG	PCT	CUM PCT	VALUE	FREG	PCT	CUM PCT	VALUE	FREG	PCT	CUM PCT
204, 00	1	٥	٥	2065. 00	1	٥	40	3248. 00	1	٥	59
275.00	_	1	ī	2069.00	1	ō	40	3270.00	ءَ	1	59
320.00		6	7	2075.00	•	ŏ	41	3278.00	7	ō	60
396.00		ĩ	é	2087.00	ŝ	1	41	3295.00	i	ō	60
491. CO		i	9	2090.00	1	ò	42	3330, 00	3	1	61
597.00		- 1	ģ	2105.00	3	•	43	3358.00		ō	61
608.00	_	ò	10	2156.00	2	•	43	3387.00	•	ĭ	61
751.00		9	10	2173.00	7	ô	43	3427. 00	7	ò	62
		٦		2183.00	:	ŏ	44	3470.00	ż	•	62
764 00	_	- :	10		1	9			2	•	
789 00	•	1	11	2212.00	2	1	44	3507.00	2		63
806.00	3	1	12	22 76. 00	1	0	44	3562.00	2	1	63
906, 00	1	٥	12	2320.00	1	٥	45	3575.00	1	0	63
925 00	2	1	13	2367.00	1	0	45	3599.00	1	0	64
961.00	. 1	0	13	2416, 00	1	٥	45	3601.00	4	1	65
970.00	3	1	14	2421.00	Ž	1	46	3648.00	1	0	65
1034.00		7	21	2430.00	1	Ō	46	3658.00	2	1	65
1049.00		1	22	2493.00	ż	1	46	3685.00	2	1	66
1120.00	_	ō	22	2500 . 00	2	ī	47	3732.00	5	1	67

1131.	Δ0	2	1	23	2501.	00	1	0	47	3753.	00	1	0	69
1141.		1	ö	23	2542.		ž	ī	48	3761.		ī	ŏ	68
1168.		i	ŏ	23	2556.		ī	ō	48	3792.		ī	ō	48
1264.		ī	ŏ	23	2568.		ĭ	ŏ	48	3796.		ī	ō	68
1388.		ž	ĭ	24	2588.		3	1	49	3844.		1	Ŏ	69
1416.		3	ī	25	2623.		Ž	1	49	3847.		ī	ō	69
1459.		29	7	32	2630.		2	1	50	3885.		ī	0	69
1512		1	ò	32	2635.		1	Ö	50	3904.	00	3	1	70
1604.		4	ĭ	34	2753.		1	ō	51	3959.		ĩ	ō	70
1606.		ž	ī	34	2761.		ī	ŏ	51	4011.		4	ĭ	71
1620.		1	ö	34	2814.	-	ī	ŏ	51	4024		ż	ī	72
1652.		i	Ğ	35	2829.		ż	ī	52	4042.		ī	ō	72
1657.		ż	ĭ	35	2839.		ī	ō	52	4133.		i	ō	72
1685.		1	ò	35	2850.		ī	ŏ	52	4156.		ī	ō	72
1687.		i	ŏ	36	2842.		i	ō	52	4189.		i	ō	73
1727.		i	ŏ	36	2878.		ž	1	53	4190.		ì	ō	73
1829		i	ŏ	36	2892.		3	i	54	4254.		ĭ	ō	73
1870.		i	ŏ	36	2929.		ī	ō	54	4258.		ĭ	ō	73
1914.		ż	ī	37	2953.		ī	ō	54	4285.		i	ŏ	74
1918.		2	i	37	2969.		Ž	1	55	4390.		Ž	1	74
1925.		ī	ò	38	3008		2	ī	55	4534.		Ž	1	75
1930.		i	õ	38	3072.		ī	ō	55	4547.		ī	ō	75
1933.		2	ĭ	38	3086.		š	ī	56	4593.		ĭ	ō	75
1945.		1	ō	39	3108		3	i	57	4648.		ĭ	Ŏ	76
1949		â	ī	39	3112		ī	ō	57	4757.		Ž	1	76
1962		1	ō	39	3120		ž	ī	58	4759.		3	1	77
1966	·	i	ŏ	40	3187		2	i	58	4761.		2	ī	77
2010		:	ŏ	40	3196		ī	ō	59	4780		ī	ō	78
2010	V	•	•	70	01/0		•	•	٠.	****	••	•	•	
POP		TRACT	PUP	A.A i i	UN				•					
				CUM					CUM					CUH
VAI	LUE	FREG	PCT		VAL	.UE	FREG	PCT		VAL	.UE	FREG	PCT	
• • • • • • • • • • • • • • • • • • • •													_	
4794.	. 00	1	٥	78	6135.	00	3	1	84	7581.	00	1	0	92
4827		1	0	78	6141.	00	2	1	. 85	7749.	00	4	1	93
4990		ĩ	0	78	6196.	00	1	0	85	7914.	00	1	0	93
		- I	_											94
3004.	. 00	1	٥	79	628 6.	00	1	0	85	8515 .	00	4	1	77
5004. 5049.		1	0	79 79	628 6. 6449.		1	0	85 86	8515. 8664.		4	10	95
5049	.00	1	_			00		_			00	_	_	
	00	_	O	79	6449.	00	3	1	86	8664.	00	1	ō	95
5049 5166 5240	. 00 . 00 . 00	1 1 1	0	79 79	6449. 6813.	00 00	3	1	86 86	8664. 8768.	00 00	1 1	0	95 95
5049. 5166.	. 00 . 00 . 00	1	000	79 79 79	6449. 6813. 6834.	00 00 00	3 1 3	1 0 1	86 86 87	8664. 8768. 8965.	00 00 00	1 1	0	95 95 95
5049 5166 5240 5278	. 00 . 00 . 00 . 00	1 1 3	0 0 1	79 79 79 80	6449. 6813. 6834. 6882.	00 00 00 00	3 3 3	1 0 1 1	86 86 87 88	8664. 8768. 8965. 9515.	00 00 00 00	1 1 1 5	0 0 1	95 95 95 96
5049 5166 5240 5278 5286	. 00 . 00 . 00 . 00	1 1 1 3	0 0 1 0	79 79 79 80 80	6449. 6913. 6834. 6882. 6903.	00 00 00 00 00	3 3 3 1	1 0 1 1 0	86 86 87 88 88	8664. 8768. 8965. 9515. 9676.	00 00 00 00 00	1 1 1 5	0 0 1 0	95 95 95 96 97
5049. 5166. 5240. 5278. 5286. 5473.	. 00 . 00 . 00 . 00 . 00	1 1 1 3 1	0 0 1 0 0	79 79 79 80 80	6449. 6813. 6834. 6882. 6903. 6996.	00 00 00 00 00 00	3 1 3 3 1 1	1 0 1 1 0 0	86 86 87 88 88 88	8664. 8768. 8965. 9515. 9676. 9936.	00 00 00 00 00 00	1 1 1 5 1 2	0 0 1 0 1	95 95 95 96 97
5049. 5166. 5240. 5278. 5286. 5473. 5505.	. 00 . 00 . 00 . 00 . 00 . 00	1 1 3 1 1 1	0 0 1 0 0	79 79 79 80 80 81 81	6449. 6913. 6834. 6882. 6903. 6976. 7029.	00 00 00 00 00 00	3 3 3 1 1	1 0 1 1 0 0 0	86 86 87 88 88 88 89	8664. 8768. 8965. 9515. 9676. 9936. 10733.	00 00 00 00 00 00	1 1 5 1 2	0 0 1 0 1	95 95 95 96 97 97
5049 5146 5240 5278 5286 5473 5505 5552	. 00 . 00 . 00 . 00 . 00 . 00	1 1 3 1 1 1 3	0001	79 79 79 80 80 81 81	6449. 6813. 6834. 6882. 6903. 6996. 7029. 7051.	00 00 00 00 00 00 00	3 1 3 3 1 1 1 2	1 0 1 1 0 0 0 1	86 86 87 88 88 88 89	8664. 8768. 8765. 9515. 9676. 9736. 10733.	00 00 00 00 00 00 00	1 1 5 1 2 1	0 0 0 1 0 1	95 95 95 96 97 97 97 98 99
5049 5146 5240 5278 5286 5473 5505 5552 5562	.00	1 1 3 1 1 1 3	000100010	79 79 79 80 80 81 81 82	6449. 6813. 6834. 6882. 6903. 6976. 7029. 7051. 7142.	00 00 00 00 00 00 00 00	313311123	1 0 1 1 0 0 0 0 1 1	86 86 87 88 88 88 89 99 90	8664. 8768. 8965. 9515. 9676. 9936. 10733. 11434.	00 00 00 00 00 00 00 00	1 1 5 1 2 1 4	00010101100	95 95 95 96 97 97 97 98 99
5049 5146 5240 5278 5286 5473 5505 5552 5562 5721	00 00 00 00 00 00 00 00	1 1 1 3 1 1 3 1 2	0001001	79 79 79 80 80 81 81 82 82 82	6449. 6813. 6834. 6882. 6903. 6976. 7029. 7051. 7142. 7159.	00 00 00 00 00 00 00 00	3133111232	1001110000011111	86 87 88 88 89 89 90 90	8664. 8768. 8965. 9515. 9676. 9936. 10733. 11434. 11878.	00 00 00 00 00 00 00 00 00 00	1 1 1 5 1 2 1 4 2	0 0 0 1 0 1 0 1 1 0	95 95 95 96 97 97 97 98 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5562. 5721. 6001.	00 00 00 00 00 00 00 00	1 1 1 3 1 1 1 3 1 2 3	0000100011	79 79 79 80 81 81 82 82 82 83	6449. 6813. 6834. 6882. 6903. 6996. 7029. 7051. 7142. 7159. 7230.	00 00 00 00 00 00 00 00	31331112321	10011100000111100	86 87 88 88 89 89 90 90	8664. 8768. 8765. 9515. 9676. 7936. 10733. 11434. 11978. 11972.	00 00 00 00 00 00 00 00 00 00	1 1 1 5 1 2 1 4 2 1 1	00010101100	95 95 95 96 97 97 97 98 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	.00	11133111112231	00010001100	79 79 79 80 80 81 82 82 82 83 84	6449. 6813. 6834. 6882. 6903. 6996. 7029. 7051. 7142. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00	313311123214	10011100011	86 87 88 88 89 99 90 91 92	8664. 8768. 8765. 9515. 96736. 10733. 11434. 11878. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00	1115512142112	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00	11133111112231	0000100011	79 79 79 80 80 81 82 82 82 83 84	6449. 6813. 6834. 6882. 6903. 6996. 7029. 7051. 7142. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00	31331112321	10011100011	86 87 88 88 89 99 90 91 92	8664. 8768. 8765. 9515. 96736. 10733. 11434. 11878. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00	1 1 1 5 1 2 1 4 2 1 1	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	.00	11133111112231	00010001100	79 79 79 90 80 81 81 82 82 83 84	6449. 6813. 6834. 69903. 6996. 7029. 7051. 7159. 7230. 7328.	00 00 00 00 00 00 00 00	313311123214	1 0 1 1 0 0 0 0 1 1 1 1 0 0 1 1 1 1 1 1	96 84 87 88 88 89 99 90 91 92	8664. 8768. 8765. 9515. 96736. 10733. 11434. 11878. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00	1115512142112	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	. 00 . 00 . 00 . 00 . 00 . 00 . 00 . 00	11133111112231	0 0 0 1 0 0 1 0 1 1 0	79 79 79 80 80 81 82 82 82 83 84	6449. 6813. 6834. 6890. 6996. 7029. 7051. 7142. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 1 0 1	96 84 87 88 88 89 99 90 91 92	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	. 00 . 00 . 00 . 00 . 00 . 00 . 00 . 00	11133111112231	0 0 1 0 0 1 0 1 1 0 0	79 79 79 80 81 81 82 82 83 84	6449. 6813. 6834. 6802. 6903. 6976. 7029. 7051. 7142. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 3 2 1 4	1 0 1 1 0 0 0 1 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00	11133111112231	0 0 1 0 0 1 0 1 0 7 0 1 1 0	79 79 79 80 80 81 82 82 82 83 84	6449. 6813. 6834. 6802. 6903. 6976. 7029. 7051. 7142. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 3 2 1 4	1 0 1 1 0 0 0 1 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00	11133111112231	00000000000000000000000000000000000000	79 79 79 60 81 81 82 82 83 84	6449. 6813. 6834. 6993. 6996. 7029. 7051. 7142. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 3 2 1 4	1 0 1 1 0 0 0 0 1 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00	1113311112331	00000000000000000000000000000000000000	79 79 79 90 81 81 82 82 82 83 84	6449. 6813. 6834. 6993. 6996. 7029. 7051. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4 EQUAL	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1113311112331	00000000000000000000000000000000000000	79 79 79 80 80 81 81 82 82 82 83 84	6449. 6813. 6834. 6993. 6996. 7029. 7051. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1113311112331	0 0 0 1 0 0 1 1 0 7 1200 127 1297 1297 1297 137 137 137 137 137 137 137 137 137 13	79 79 79 80 80 81 81 82 82 82 82 83 84	6449. 6813. 6834. 6903. 6976. 7029. 7051. 7142. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	. 00 . 00 . 00 . 00 . 00 . 00 . 00 . 00	1113311112331	0 0 0 1 0 0 1 1 0 0 120 187 254 348 455	79 79 79 80 81 81 82 82 82 83 84	6449. 6813. 6834. 6903. 6996. 7029. 7051. 7142. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	.00 .00 .00 .00 .00 .00 .00 .00 .00 .00	1113311112331	0 0 0 0 1 1 0 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 2 5 4 3 2 1 1 3 9 8 4 5 5 5 2 2	79 79 79 80 81 81 82 82 82 83 84	6449. 6813. 6834. 6993. 6996. 7029. 7051. 7142. 7159. 7230. 7326.	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1113311112331	0 0 0 0 1 0 0 1 1 1 0 533 1200 1297 234 321 388 455 522 589	79 79 79 80 81 81 82 82 82 83 84	6449. 6813. 6834. 6903. 6976. 7029. 7051. 7142. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1113311112331	0 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 2 5 4 5 5 5 2 2 5 8 9 6 5 6 5 6 7 2 3 7 9 0	79 79 79 80 80 81 81 82 82 82 82 83 84	6449. 6813. 6834. 6892. 6993. 6996. 7029. 7051. 7142. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1113311112331	0 0 0 0 1 1 0 0 0 1 1 1 0 0 1 1 1 1 0 0 1 1 1 2 5 4 3 2 1 1 3 9 8 4 5 5 2 2 5 8 9 6 5 6 7 2 3 7 7 9 0 8 5 7 7 9 0 8 5 7	79 79 79 80 81 81 82 82 83 84 T I ##	6449. 6813. 6834. 6993. 6996. 7029. 7051. 7142. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1113311112331	0 0 0 0 1 0 0 1 1 0 53 120 137 254 321 388 455 522 589 656 723 790 957 924	79 79 79 80 81 81 82 82 82 83 84 7 7 1	6449. 6813. 6834. 6892. 6903. 6976. 7029. 7051. 7142. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1 1 1 3 1 1 2 3 1 2 3 1	0 0 0 1 1 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 1 0 1 1 1 1 0 1	79 79 79 80 81 81 82 82 82 83 84 7 1 ***	6449. 6813. 6834. 6892. 6903. 6976. 7029. 7051. 7149. 7230. 7328.	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1 1 1 3 1 1 2 3 1 1 MID	0 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 1 0 1	79 79 79 80 80 81 81 82 82 82 82 83 84 T	6449. 6813. 6834. 6903. 6976. 7029. 7051. 7142. 7159. 7230. 7328.	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1 1 1 1 1 1 2 3 1 1 MID	0 0 0 0 1 1 0 0 0 1 1 1 0 0 1 1 1 1 0 0 1 1 1 2 5 4 3 2 1 3 2 1 3 2 5 8 9 6 5 6 7 2 3 7 9 0 7 2 1 1 0 5 8 1 1 2 5 1 1 0 5 8 1 1 2 5 1 1 0 5 8 1 1 2 5 1 2 5 1 1 0 5 8 1 1 2 5 1 2 5 1 2 5 1 1 0 5 8 1 1 2 5	79 79 79 80 81 81 82 82 83 84 7 1 ##1 1 ##1 1 ##1 1 ##1 1 ##1 1 ##1 1 ##1 1 ##1 1 ##1	6449. 6813. 6834. 6993. 6996. 7029. 7051. 7142. 7159. 7230. 7326.	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1 1 1 1 1 1 2 3 1 1 2 3 1 1 1 1 1 1 1 1	0 0 0 0 1 1 0 0 0 0 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1 0 1	79 79 79 80 81 81 82 82 83 84 T T I ##I I	6449. 6813. 6834. 6993. 6996. 7029. 7051. 7142. 7159. 7230. 7326.	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1 1 1 3 1 1 2 3 1 1 2 3 1 1 1 1 1 1 1 1	0 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1 0 1	79 79 79 80 81 81 82 82 82 83 84	6449. 6813. 6834. 6993. 6996. 7029. 7051. 7142. 7159. 7230. 7326.	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1 1 1 3 1 1 2 3 1 1 2 3 1 1 4 1 7	0 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1 0 1 1 1 1 0 1	79 79 79 80 81 81 82 82 82 83 84 7 1	6449. 6813. 6834. 6993. 6996. 7029. 7051. 7142. 7159. 7230. 7326.	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 2 1 4	1 0 1 1 0 0 0 1 1 1 0 1	96 86 87 88 88 89 90 90 91 92 PRG	8664. 8768. 8765. 9515. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00	2.00 0	000110110011	95 95 95 96 97 97 97 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1 1 1 3 1 1 2 3 1 1 2 3 1 1 4 1 7	0 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1 0 1	79 79 79 80 80 81 81 82 82 82 82 83 84 T I ###	6449. 6813. 6834. 6993. 6996. 7029. 7051. 7142. 7159. 7230. 7328. ONE S'	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 3 2 1 4	1 0 0 1 1 1 0 0 0 1 1 1 1 0 0 1 1 1 1 0 1	86 86 87 88 88 89 90 90 91 92 PPRG:	8664. 8768. 8765. 9519. 9676. 9936. 10733. 11434. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00 00 00 00	2.00 0	0 0 0 1 0 1 1 0 0 1 1 1 0 1 1 1 1 1 1 1	95 95 95 96 97 97 97 99 99 100
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1 1 1 3 1 1 2 3 1 1 2 3 1 1 4 1 7	0 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1 0 1 1 1 1 0 1	79 79 79 80 81 81 82 82 83 84 7 1 ##1 1 #	6449. 6813. 6834. 6993. 6996. 7029. 7051. 7142. 7159. 7230. 7328. ONE S'	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 3 2 1 4	1 0 0 1 1 1 0 0 0 1 1 1 1 0 0 1 1 1 1 0 1	86 86 87 88 88 89 90 90 91 92 PPRG:	8664. 8768. 8965. 9515. 9676. 9936. 114378. 11972. 13535. 14257.	00 00 00 00 00 00 00 00 00 00 00 00 00	2.00 00	0 0 0 1 0 1 1 0 0 1 1 1 0 1 1 1 1 1 1 1	95 95 95 96 97 97 97 99 99 99
5049. 5166. 5240. 5278. 5286. 5473. 5505. 5552. 5721. 6001. 6121.	00 00 00 00 00 00 00 00 00 00 00 00 00	1 1 1 3 1 1 2 3 1 1 2 3 1 1 4 1 7	0 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1 0 1 1 1 1 0 1	79 79 79 80 80 81 81 82 82 82 82 83 84 T I ###	6449. 6813. 6834. 6993. 6996. 7029. 7051. 7142. 7159. 7230. 7328. ONE S'	00 00 00 00 00 00 00 00 00 00 00 00 00	3 1 3 3 1 1 1 2 3 2 1 4	1 0 0 1 1 1 0 0 0 1 1 1 1 0 0 1 1 1 1 0 0 1 1 1 1 0 0 1	86 86 87 88 88 89 89 90 91 92 PPRG:	8664. 8768. 8768. 97515. 9676. 9936. 10733. 11878. 11972. 13535. 14257. XIMATEI	00 00 00 00 00 00 00 00 00 00 00 00 00	2.00 0	0 0 0 1 0 1 1 0 0 1 1 1 0 1 1 1 1 1 1 1	95 95 95 96 97 97 97 99 99 100

POP TRAC	T POPULATION
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MEAN 3374 982 MGDE 1034 000 KUPTOSIS 1.862 S.E.SHEW 124 MAXIMUM 14257 000	STD ERR 139. 244 STD DEV 2742. 794 S E KURT 1. 995 RANGE 14053. 000 SUM 1309493. 00	MEDIAN 2632.500 VARIANCE 7522917.73 SKEWNESS 1.373 MINIMUM 204.000
PERCENTILE VALUE	PERCENTILE VALUE	PERCENTILE VALUE
10 00 762.700 50 00 2632.500 90 00 7159.000	25. 00 1459. 000 66 70 3732 000	33. 30 1604. 000 75. 00 4581. 500
VALID CASES 388	MISSING CASES 0	

DU TOTAL DWELLING UNITS IN TRACT

	FREQ	DCT	CUM	VALUE	FREQ	PCT	CUM	VALUE	FREG	PCT	CUM PCT
VALUE								1393. 00	1	0	62
1.00	4	1	1	950.00	3	1	34 34	1404.00	i	õ	63
84.00	4	1	2	965 00	1	ò	35	1422.00	2	ī	63
117.00	1	Ò	2	968, 00 969, 00	ż	1	35	1430.00	ī	ō	63
224.00	24	6	9	977 00	1	ō	35	1433.00	ĭ	Ō	64
241 00	2	1	17	980.00	i	ŏ	36	1442.00	1	0	64
257.00	31 4	€ 1	18	983.00	î	ő	36	1445.00	1	Ó	64
286 00	3	1	19	985.00	ī	ő	36	1472.00	5	1	63
336 00	3	i	20	997.00	1	ō	36	1484.00	2	1	66
386.00 399.00	1	ò	20	1006.00	3	1	37	1506.00	1	0	66
419.00	i	ŏ	20	1009.00	- 2	1	38	1518.00	1	0	66
422.00	i	Ğ	20	1024.00	30		45	1536.00	1		67
432.00	2	ĭ	21	1026, 00	2		46	1555.00	2		67
473.00	2	ī	21	1105.00	2	1	46	1566.00	1		98
488.00	1	ō	22	1111.00	1	0	47	1570.00	4		69
509.00	2		22	1118.00	1	0	47	1582.00	3		69
540.00	3		23	1135.00	2	1	47	1605.00	5	_	71
551.00	ī	ō	23	1138.00	1			1625. 00	1		
553.00	1	0	23	1139.00	2			1629.00	1		
597.00	1	0	24	1144, 00	3			1630.00	3		
624.00	1	0	24	1154. ŭQ	5			1631.00	1		
626.00	3	1		1163.00	2		= .	1654.00	2		
631.00	1	0		1174.00	2			1663.00	1		
644.00	2			1175.00	1	_		1675.00	1		
646 00	1			1178.00	1			1700.00 1704.00	1	_	
663 00	1			1190.00	2			1723.00	1	_	
676.00	1			1194.00	2			1723.00	1	_	
680 00	1			1195 00	a a			1750.00	i	_	
692.00	2			1197.00	1			1751.00	ż		
644 00	3			1200 00	2			1755.00	3		
705 00	1			1203.00	3		55	1759.00	•	_	
707. 00	1			1207.00			56	1806.00	3		
715.00	1			1221.00 1229.00			56	1807.00		-	
745 00	1			1262.00			57	1843.00		i c	77
753.00	1			1263.00			57	1860.00	-	i c	77
799.00	1			1279 00		_	58	1863.00	:	3 1	78
B04 00				1294 00			58	1922.00	1	1 (79
810.00	1	_	_	1305.00			1 59	1924.00		1 (78
845 00				1306 00			1 60	1926.00		1 (
850.00 880.00				1325.00			1 61	1953.00		1 (79
863 00				1332 00			0 61	1965.00		-	79
902 00		2 1		1340.00		1	0 61	1972 00		_	1 80
930 00		2 1	-	1361.00		1	ō 62	1976.00			1 80
445 CC			33	1362 00		1	ე გ2			-	0 80
447 00		-	. 23	1364 00		1	0 42	1988 00		1 (0 81
5 -			_								

DU	TOTAL	DHEL	LING	UNITS IN	TRACT						
VALUE	FREG		CUM PCT		FREG	PCT	CUM PCT	VALU	Æ FR	EQ PCT	CUM PCT
1989.00		٥		2310.00	1	٥	86	2890. 0	00	4 1	94
2004. 00 2031. 00	1	0	81	2354. 00		1		3023.	_		94
2031.00	1	0	81	2373. 00 2392. 00	1	0	88	3142.0	: =	1 0	
2041.00	å	ĭ	82	2456.00	2	1	80 88	3326. 0 3408. 0		1 0	95
2054.00	1	٥	83	2523.00	3	i	90	3477. 0	2	1 0	96
2101.00	3	1	84	2037.00	<u> </u>	U	40	3472.0	X 0	1 0	97
2107. 00 2121. 00	2	1	84	2636.00	3	1	91	3645.0	X	1 0	97
2185. 00	i	ŏ	85	2692.00	1	٥	91	3679.0)O	2 1	97
2189.00	1	ŏ	85	2747. 00	i	ŏ	91	3879.0	,o	1 0	78 98
2196.00	2	1	B5	2863. 00	1	0	92	3928. 0	0	4 1	99
2221.00 2234.00	1	0	86	2434.00 2451.00 2492.00 2747.00 2843.00 2887.00 2889.00	4	1	93	4752. 0	Ю	1 0	99
2234. 00	_	•		2866. 00	1	O	43	4917. 0	10	2 1	100
COUNT	MIDE	TNIO		ONE SYMBOL				IMATELY	1.50	OCCUR	RENCES
33 48		109 344						*****			
24		579	**1	****	***						
21 71				******							
45		1284	***	******	*****	***	***	*****			•
38				******		***	***				
21 23		1754 1989		*****							
11		2224			***						
13		2459		****							
7 11		2694									
i		2929 3164		****							
8		3399	***	**							
3 7		3634 3869									
ó		4104	***	***							
0		4339									
0		4574 4809	**								
3		7007		. + I	. +	. I	+	1	•		,
			0	15		30		45	60		75
				HIST	TOGRAM	FRE	QUEN (CY			
DU	TOTAL	DHEL	LING	UNITS IN	TRACT						
MEAN MODE	1319. 257.			STD ERR STD DEV	47	7. 522		MEDIA		1154.00	
KURTOSIS		354		S E KURT		. 070 . 995		SKEWN		6227. 9; 1. 1(
S E SKEW		124		RANGE	_	. 000	-	MINIM		1. 00	
MAXIMUM	4917.	000		SUM	512130	. 000				•	
PERCENTILE	: VA	LUE		PERCENTIL	E (ALUE	•	PERCE	NTILE	VALI	Æ
10.00	257.	000		25, 00		. 250		33.	30	950. 00	00
50.00	1154.			66. 70						1754. O	
90.00	2636	000									
VALID CASE	s	386		MISSING C	ASES	o)				

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1	DIAL DI	••••									
VALUE	FREG	PCT	CUM PCT	VALUE	FREG	PCT	CUM PCT	VALUE	FREG P		CT
1. 00	58	15	15	359. 00	3	1	44	760. 00	2	1	63.
5.00	1	0	15	367.00	1	٥	44	761.00	1	0	63
6.00	3	1	16	371.00	2	1	45	766. 00	1	0	63
9.00	29	7	23	374. 00	1	0	45	776. 00	4	1	64
20.00		1	25	403.00	3	1	46	7 92 . 00	1	0	65
23.00	ž	1	25	415.00	3	1	47	7 9 5. 0 0	2	1	65
44.00	2	1	26	420.00	2	1	47	802. 00	3	1	66
53.00	ī	ŏ	26	425.00	1	0	47	9 07. 0 0	5	1	67
67.00	2	1	27	441.00	1	0	48	B15.00	1	٥	68
87.00	1	ō	27	446.00	1	0	48	B21.00	3	1	68
88.00	ż	1	27	470.00	1	0	48	B36.00	1	0	69
99.00	ī	ó	28	472.00	3	1	49	837.00	4	1	70
100.00	ż	ĭ	28	475.00	1	Ō	49	B52. 00	2	1	70
102.00	1	ó		482.00	1	Ó	49	856. 00	1	٥	70
104.00	ż	1	29	486.00	1	ő	50	888. 00	1	0	71
104.00	3	i	30	519.00	1	ŏ	_	894.00	1	٥	71
107.00	ĭ	ō		526.00	1	ō	50	897.00	1	0	71
121.00	i	ŏ	_	536. 00	Ž		-	933. 00	1	٥	71
126.00	i	ŏ		553.00	1			939.00	1	٥	72
	i	Ö		560.00	1	_	-	968, 00	1	0	72
128.00	i	-		574. 00	ī	_		1033.00	2	1	72
130.00	3			576. 00	2		_	1041.00	1	0	73
137.00	2			577. 00	ī			1062.00	2	1	73
143.00	2			579.00	1	-		1063.00	1	0	73
154.00	2			597.00	3		7 2	1072.00	1	0	74
175.00	2			604.00	ā			1077.00	1	0	74
178.00	1			611.00	2			1084.00	3	1	75
188.00	4			625. 00	1		_	1088.00	1	Ö	75
197.00	ī			631.00	2			1090.00	1	0	75
209.00	-	-		433.00	- 2		_	1114.00	ī	0	76
212.00	4 2			635. 00	1			1166.00	ž	ĭ	76
214.00				642.00	3			1179.00	ī	Ŏ	77
220.00	2			661.00	1		_	1191,00	ī	ō	77
235.00	3			666.00	3		_	1207.00	i	ō	77
237.00	1			667.00	3			1212.00	ī	ō	77
240 00	2			678.00	1			1251.00	3	ī	78
268 00	2		_	678. 00 680. 00	á			1259.00	ī	ō	78
281.00	3			00.186				1264.00	1	ō	79
293 00	2			686.00	1			1282.00	ī	Ō	79
309 00	ã			693.00	i			1289.00	ī	ō	79
307 00	2			711.00		2		1291.00	ī	ō	79
314 00	1			714.00		3		1343.00	3	ī	80
322 00	1			715.00			61	1360.00	ī	ō	80
330 00	1			724.00			62	1378.00	ī	ŏ	81
331 00	1) 43	726.00			9 65	1391.00	ī	ō	81
352 00	1		-	744. 00		_	7 95	1417.00	ī	ō	81
353 00	1	. (43	/=4.00	•	-	. 04	1417. VV	•	-	

ONE UNIT STRUCTURES IN TRACT

			CUM				CUM				CUM
VALUE	FREQ	PCT		VALUE	FREG	PCT		VALUE	FREG	PCT	PCT
1439 00		٥	81	1824.00	1	٥	86	2298.00	1	0	94
1442 00	;	ō		1859 00	2	1	86	2336.00	2	1	94
1453 00	î	ő	82	1870 00	1	O	86	2339.00	4	1	95
1461 00	i	ō		1902 00	2	1	87	2383.00	5	1	96
1486.00	•	õ		1907.00	3	1	88	2485.00	1	0	
1491.00	i	ō		1921.00	1	٥	86	2696.00	1	0	
1556 00	;	ō		1987 00	3	1	89	2763.00	1	0	97
1568 00	ż	ī	84	2016 00	1	٥	89	2933.00	4	1	98
1575 00	1	ó		2046 00	1	0	89	2968.00	1	0	
1630.00	ż	1	84	2078.00	7	2	91	3203.00	2	. 1	99
1631 00	- 1	ė		2118 00	1	0	91	3452.00	1	0	
1743 00	:	ŏ	==	2182 00	4	1	92	3543.00	1	0	
1761 00	;	ō		2186.00	2	1	93	3722.00	2	. 1	100
1808 00	i	ŏ		2200 00	2	1	93				

COUNT P	11DPOINT	ONE !	SYMBOL EQU	JALS API	PROXIMATE	LY 4.00 (DCCURRE	NCES
127 39 29 37 41 9 18 14 11 13 9 11 12 5 0 2	2396 2574 2752 2930 3108 3286 3464 3642		. I +.		· + I.	···+I.		I 200
U1	ONE UNI	T STRUC	TURES IN	TRACT				
MEAN MODE KURTOSIS S E SKEW MAXIMUM	. 13	00 13 24	STD ERR STD DEV S E KURT RANGE SUM	821		MEDIAN VARIANCE SKEUNESS MINIMUM	675554 1	2. 500 5. 675 291 000
PERCENTI	LE VAL	UE	PERCENTI	LE V	ALUE	PERCENTI	LE V	ALUE
10. 00 50. 00 90. 00	1. 00 522. 50 2078. 00	00	25. 00 66. 70		. 000 . 000	33. 30 75. 00		6. 611 9. 500
VALID CA	SES 3	88	MISSING	CASES	0			
ABNF	AREA: BI	UILT NO	N-RESIDEN'	TIAL				
VALUE	FREG P	CUM CT PCT	VALUE	FREG	CUM PCT PCT	VALUE	FREQ P	CUM PCT PCT
0 0 00 00 00 00 00 00 00 00 01 01 01	2 1 3 1 2 1 5 1 1	11 11 1 12 1 12 1 13 0 13 1 13 0 15 0 15 0 16 1 16 0 16 0 17 1 18 0 18 0 19	13 14 15 15 15 17 17 18 20 21 22 22 22 22 23 23	221111113222421111	1 27 1 28 0 28 0 29 0 29 0 29 0 30 1 30 1 31 1 32 1 33 1 34 0 34 0 34 0 35	48 49 52 53 53 53 54 55 57 58 61 61 61 63 64	12111111219422211	0 47 1 47 0 48 0 48 0 48 0 49 0 49 6 55 1 56 0 56 7 64 1 65 1 65 1 66 0 67 0 67

ABNF	APEA:	BUI	_T NON	I-RES I DENT	IAL						
VALUE	FREG	PCT	CUM PCT	VALUE	FREG	PCT	CUM PCT	VALUE	FREG		CUM PCT
02 02 03 03 03 04 05 05 05 06 06 06 07 07 08 09 10 10 11 12 12	111111111111111111111111111111111111111	001000000000000000000000000000000000000	20 21 21 21 22 22 22 23 23 24 24 24 25 25 25	25 26 27 27 27 29 31 31 31 32 44 45 45 45 46 46 46 46 46 46 46 46 46 46 46 46 46	311121113131222121214131222	1000010001100110011110011111	35 36 36 37 37 37 38 39 40 41 44 44 44 44 45 46 46 47	. 66 . 66 . 67 . 67 . 68 . 69 . 72 . 79 . 80 . 82 . 85 . 86 . 89 . 92 . 1. 02 1. 02 1. 02 1. 09 1. 12 1. 15 1. 16 1. 18	3322111112241111111213213244	11100000011100000011011101111	68 669 770 771 771 773 774 777 777 778 777 778 778
ABNR	AREA:	BUIL	T NON-	RESIDENTI	AL						
VALUE	FREG		CUM PCT	VALUE	FREG F		PCT	VALUE	FREG P	_	UM CT
1. 19 1. 19 1. 22 1. 25 1. 27 1. 40 1. 44 1. 71	1 1 3 5 2 29 2	1	80 81 81 83 83 91 91	1. 71 1. 73 1. 78 1. 83 1. 83 2. 00 2. 05 2. 14	33213341	1 1 0 1 1 1	92 93 94 95 95 96 97	2. 16 2. 28 2. 35 2. 47 2. 56 2. 77 3. 02	1 1 2 1 4 1 3	0 1 0 1	97 97 98 98 99 99
COUNT	MIDE	OINT	O1	IE SYMBOL	EQUALS	S API	PROXI	MATELY 2.	.00 000	URRE	NCES
90 41 26 29 86 12 29 22 29 36 13 41 10 3		30 45 60 75 70 1 05 1 30 1 50 1 65 1 80		+I 20	***	1.	****	I+	****	. •.	1

MEAN MODE KURTOSIS S E SKEW MAXIMUM	. 124	STD ERR STD DEV S E KURT RANGE SUM	. 643	MEDIAN VARIANCE SKEWNESS MINIMUM	. 546 . 414 1. 291 0. 0
ABNR	AREA: BUILT	NON-RESIDENT	IAL		
PERCENTIL	E VALUE	PERCENTIL	E VALUE	PERCENTIL	E VALUE
10.00 50.00 90.00	0. 0 . 546 1. 404	25. 00 66. 70	. 105 . 641	33. 30 75. 00	. 219 1. 021
VALID CAS	SES 388	MISSING C	ASES 0		
ABR	AREA: BUILT	RESIDENTIAL			
VALUE	CU FREQ PCT PC		FREG PCT PCT	VALUE F	CUM FREG PCT PCT
0.00 000 000 003 044 055 09 112 115 116 117 118 119 120 226 28 300 31 32 33 35 36 36 37 37 38 38 39 39 31 31 32 33 35 36 37 37 37 37 37 37 37 37 37 37	22 22 22 21 1 0 0 0 2 2 2 2 2 2 2 2 2 2	33 47 34 48 50 51 51 55 52 66 55 57 77 58 58 59 60 61 62 62 67 63 77 78 88 70 61 64 77 77 78 88 87 70 77 78 88 89 99 99 99 81 80 88 80 80 88 80 80 88 80 80 80 80 80 8	1 0 42 1 0 43 1 0 43 1 0 44 1 0 45 4 1 46 1 0 47 1 0 47 1 0 47 1 0 47 1 1 50 1 2 1 50 2 1 55 2 1 0 53 1 1 55 1 1 1 1	. 92 . 94 . 95 . 95 . 96 . 97 . 97 . 98 1. 01 1. 02 1. 02 1. 02 1. 02 1. 04 1. 09 1. 13 1. 24 1. 29 1. 31 1. 32 1. 32 1. 32 1. 32 1. 32 1. 41 1. 48 1. 49	1 0 61 3 1 62 1 0 62 1 64 1 0 65 1 0 65 1 0 65 1 0 65 1 0 67 2 1 68 1 0 69 1 0 69 1 0 69 1 0 69 1 0 70 1 0 71 1 0 71 1 0 72 1 0 72 1 0 72 1 0 73 1 0 75 1 0 75 1 0 77 1 0 75 1 0 77 1 0 77

ABR	AREA:	BUIL	T RE	BIDENTIAL							
VALUE	FREQ	PCT	CUM PCT	VALUE	FREG	PCT	CUM PCT	VALUE	FREG	PCT	CUM PCT
2. 53 2. 54	1 1	0	79 79	3. 32 3. 35	1	0	85 86	4. 40 4. 41	_	0	91 92
2. 56	i	ŏ	79	3. 37	i	ő	86	4. 42	_	ō	92
2. 60	1	0	80	3. 54	2	1	86	4. 65	_	1	93
2. 65 2. 67	1 1	Ö	80 80	3. 64 3. 64	1 2	0	87 87	5. 31 5. 73		0	9 3 94
2. 76	ī	-	80	3. 68	ī	ō		6. 07	_	ō	94
2. 86	3		81	3. 83	1	0	88	6. 16		1	95
2. 96 2. 98	1	0	61 62	3. 85 3. 93	2	1 0	88	6. 23 6. 30		1	96 97
2. 96	4	1	83	3. 94	2	1	89	6. 47	2	1	97
2. 97 3. 14	3 1	-	84 84	4. 01 4. 01	1	0		7. 22 10. 90		1	98 98
3. 16	2	-	64	4. 03	i	Ö	90	12. 58		1	99
3. 23	1		85	4. 08	1	0	90	12. 80		0	99
3. 27	2	1	85	4. 40	5	1	91	72370.00) 2	1	100
COUNT	MID	PÕINT	(DNE SYMBOL	EGUA	_S AF	PRO	(IMATELY	8. 00 Q	CCURI	RENCES
386		1715		****	****	****	****1	******	*****	****	***
0		5162 8609									
0		12056									
0		15503 18950									
ŏ		22397									
0		25844 29291									
0	-	27271 32730									
ō		36195									
0		39632 430 <i>7</i> 9									
ŏ		46526									
0		49973									
0		53420 56867									
0		60314									
0		63761 67209									
2		70655									
			Ĭ		+ .	I.	+.	I		. , , +.	
			0	BO HIS	TOGRA	160 1 FRE	EQUEN	240 1CY	350		400
ABR	AREA:	BUIL	T RES	SIDENTIAL							
HEAN HODE		481		STD ERR		8. 434 8. 043		MEDIAN		. 61	
MODE KURTOSIS		. 0 . 479		STD DEV S E KURT		7. 043 . 995	-	SKEHNE	CE 26926 SS	162. 13. 87	
S E SKEW		124		RANGE	72370	0.000)	MINIMU		0. 0	
MAXIMUM	72370.	000		SUM 1	45296	3. 45 0)				
PERCENTIL	E V	ALUE		PERCENTILE	= (ALUE	Ξ	PERCEN	TILE	VAL	Æ
10.00	0.	. 0		25. 00		. 034	•	33. 3	10	. 31	18
50.00		612		66.70	:	. 016	5	75. 0	0	2.00	9
90.00	4.	396									

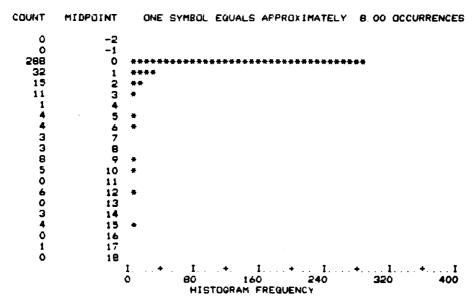
MISSING CASES

VALID CASES

	4054	COEN	. IT THE COLUMN	BL BCO
AO CA	AKEA:	UPEN	TUCHTIW	BLUGS

VALUE	FREG	PCT	CUM PCT	VALUE	FREG	PCT	CUM PCT	VALUE	FREG	CUM PCT PCT
							. • .	*******		
O. O	212	55	55	. 28	1	0	71	2.15	1	0 85
. 00	1	C	55	. 28	2	1	71	2. 19	3	1 85
. 00	1	0	55	. 29	1	0	71	2. 28	1	0 86
. 00	2	1	56	32	1	O	72	2. 30	1	0 B6
. 01	3	1	56	. 34	1	0	72	2. 45	2	1 86
. 01	2		57	. 34	1	0	72	2. 60	1	0 87
. 01	2		57	37	1	0	72	2. 69	5	1 87
. 01	1	0		38	1	0	73	2. 71	1	0 87
. 01	1	0		. 39	2	1	73	2. 73	1	0 88
. 02	1	9		41	1	0	73	2.82	5	1 88
. 02	1	0		. 42	1	0	74	3. 10	1	0 B8
. 03	3	1	59	. 43	1	0	74	3. 19	2	1 89
. 03	2	1	60	. 49	1	0	74	3. 22	1	0 89
. 03	1	0		55	1	0	74	3. 79	1	0 89
. 04	3	1	61	. 5 <u>6</u>	1	0	75	4. 86	3	1 90
. 05	2	1	61	. 67	2	1	75	5. 07	1	0 90
. 05	3	1	62	71	1	O	76	5. 91	1	0 91
06	2	1	63	73	1	C	76	6. 09	3	1 91
. 06	1	0		. 78	4	1	77	6. 78	5	1 92
. 08	1	Ü		79	5	1	77	6. 89	1	0 92
. 08	2	1	64	. 80	1	0	78	7. 53	1	0 93
. 09	1	?	64	. 85	4	1	79	8. 14	1	0 93
. 09	ż	0	64 65	. 89 . 93	1	0	79 79	8. 17 8. 64	1	0 93
. 0 9 . 10	4	1	66	. 93 . 95	1	0	79	8. 84 8. 84	1 4	0 93
. 10	ī	ò		1. 02	1	0	80	9. 39	1	1 94 0 95
. 11	2	1		1. 02	1	Ö	80	7. 37 9. 49	2	1 95
. 12	1	ó		1.12	4	1	B1	7. 47 10. 41	5	
. 13	2	1	67	1. 16	3	1	85	11.84	1	1 96 0 97
. 14	3	1	68	1. 16	5	1	82	12.03	4	
. 14	2	1	69	1. 16	1	ó	82	12. 39	ī	1 98 0 98
18	3	1	69	1. 27	2	1	63	14. 12	3	1 99
. 18	1	ò	70	1. 58	2	1	64	14. 63	4	1 100
21	i	0	70	1.68	1	Ċ	84	14. 83 16. 87	1	0 100
. 22	•	'n		1.78	1	ŏ	84	10. 07		0 100
27	•	Ô	70	1. 89	í	ŏ	84			

AD AREA: GPEN WITHOUT BLDGS



MEAN MODE KURTOSIS S E SKEW MAXIMUM	1.307 0.0 7.792 124 16.869	STD ERR STD DEV S E KURT RANGE SUM	. 161 3. 180 1. 995 16. 869 507. 244	Median Variance Skeuness Minimum	0. 0 10. 115 2. 903 0. 0
PERCENTILE	VALUE	PERCENTILE	VALUE	PERCENTILE	VALUE
10.00 50.00 90.00	0. 0 0. 0 4. 977	25. 00 66. 70	0. 0 . 125	33. 30 75. 00	0. 0 . 671
VALID CASES	388	MISSING CAS	ES 0		
A 20A	REA: OPEN WI	TH BUILDINGS			
COUNT	MIDPOINT	ONE SYMBOL	EQUALS APPRO	CIMATELY 8.00	OCCURRENCES
0 0 318 26 8	1 5 # 3.0 #	**	*******	*******	*
3 1 3 13 2 1	4.5 6.0 7.5 9.0 10.5 12.0				
7 0 0 0 1 5	13.5 * 15.0 16.5 18.0 19.5 21.0 *				
0	22. 5 24. 0 25. 5 I. 0	+I	+I +.	I+ 240 32	
		HIST	DGRAM FREQUE		
MEAN MODE KURTOSIS S E SKEW MAXIMUM	1, 253 0, 0 14, 131 , 124 20, 947	STD ERR STD DEV S E KURT RANGE SUM		MEDIAN VARIANCE SKEWNESS MINIMUM	. 000 12. 891 3. 471 0. 0
PERCENTILE	VALUE	PERCENTILE	VALUE	PERCENTILE	VALUE
10.00 50.00 90.00	0.0 .000 3.219	25. 00 66. 70	G. 0 . 130	33, 30 75, 00	0. 0 . 198
VALID CASES	388	MISSING CA	SES O		
A EOA	REA: OPEN WI	TH BUILDINGS			
VALUE	CUP FREG PCT PC1		CUM FREQ POT POT	VALUE FR	CUM REQ PCT PCT
0 0 00 00 00 00 00	134 35 35 66 17 56 2 1 56 1 0 50 3 1 50 2 1 54	2 11 2 12 3 13 8 16 1 17	1 0 65 1 0 66 2 1 66 29 7 74 1 0 74 1 0 74 1 0 74	1. 20 1. 29 1. 66	1 0 86 2 1 86 1 0 86 1 0 87 4 1 88 1 0 88 3 1 89

00 00 01 01 01 02 03 03 03 04 04	318181119831111198	1010100011100000001	5555666778899000011	20 2217 289 332 335 450 551 598 607	14112123111121212	0100010000001001	77777788777999999999999999999999999999	2.30 2.36 3.03 3.17 3.67 4.30 4.35 6.70 7.33 7.35 8.29 8.29 8.54 8.79 9.73	91112111111141942	100001000000010111	89 90 90 91 91 91 92 93 94 95 95
	1	ن			2	1	81	8. 99	ā	1	95
	3				1				4		
. 06	2	1	62	. 71	1	٥			1	0	96 97
. 07	1	0	62	. 72	1	0	82 83	12. 08 13. 09	•	ĭ	77 99
07	2	1	62	. 83 85	5 1	ò	84	13. 47	3	i	78 98
. 08	3	1	63		ż	1	84	19.47	ĭ	ō	99
80	1 2	0	63 64	1.01 1.06	2	i	e 5	20. 95	5	ī	100
. 07	2	1	64	1.12	1	ō	85	20. 70	-	•	
. 10 . 11	3	i	65	1. 16	ź	1	85				
	_	•									

General building descriptions

APPROX AGE OF STRUCTURE

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	-99	1	. 3	. 3	. 3
	-50	ž	. 6	. 6	. 9
	-30	2	. 3	. 3	1.3
	ō	6	1.9	1.9	3. 2
	5	Ž.	. 6	. 6	3.8
	10	12	3.8	3. 8	7.6
	14	1	. 3	. 3	7. 🕏
	15	i	. 3	. 3	8. 2
	50	37	11. 7	11.7	19. 9
	25	3	, 🕈	. 9	20 . 8
	30	61	19. 2	19. 2	40. 1
	40	34	10.7	10.7	50.8
	45	1	. 3	. 3	51.1
	50	27	8. 5	8. 5	59. 6
	55	1	ī. 3	. 3	59. 9
	60	30	9. 5	9. 5	69. 4
	65	15	4.7	4.7	74. 1
	56	1	. 3	. 3	74. 4
	68	Ž	. 6	. 6	75. 1
	69	2	. 6	. 6	75. 7
	70	39	12. 3	12. 3	68 . 0
	72	1	. З	. 3	88 . 3
	74	2	. 6	6	89 . 0
	75	14	4, 4	4. 4	93. 4
	78	10	3. 2	3. 2	96. 5
	79	2	. 6	. 6	97. P
	80	2	. 6	. 6	97. B
	92	2	. 6	. 6	98. 4
	93	2 2 2 3	9	. 🕈	.99, 4
	84	ž	. 6	. 6	100. 0
	TOTAL	317	100.0	100.0	

AGE AF	PROX AGE	OF STRUCTURE			
COUNT	MIDPOINT	ONE SYMBOL	EQUALS APPROX	IHATELY 1.5	O OCCURRENCES
1	-98	•			
C 0	-89 03:				
0	-7i -62				
2	-53	*			
0	-44 -35				
10	-26 -17	*			
o e	-B	****			
13	10	*******			
ె6 చ4	19 28		. ***********************************	********	*****
34 26	37 44	******			
1 46	55 64	4	*****	****	
5€	73	****	******		*
21	62	I + I	+ I +		I+I
		0 15 HIS	30 TOGRAM FREGUEN		60 75
REAR	44 729	STD ERR	1.401	HEDIAN	40.000
FUDE MURTGEIE	30.000 3.249	STD DEV S E KURT	24 938 1 994	VARIANCE SKEWNESS	521. 914 979
S E E-3,	. 137	RANGE	183 000	HINIMUM	-79 COO
MCNIN-18	84, 000	SUM	14179 000		
FERGENTILF	VALUE	PERCENTIL	E VALUE	PERCENTILE	VALUE
10 00 50 00	20,000 40,000	25 00 56.70	30.000 60.000	33. 30 75. 00	30. 000 58. 500
90 00	25.000	00:70	0 0. 0 00	74. 04	33 . 333
-4LIG 049E8	317	MISSING C	ASES 0		
EwiT E)	(POSED WAL	I IN FOOTPRIN	ıT		
		Uif	CUIT		CUM
	TREG PCT P	CT VALUE			
्र इ.स	4 1 1 0	1 250 2 260	1 0 69 5 2 71	580 592	1 0 65
25 30	2 1 1	2 270 3 280	2 1 71 6 2 73	620 620	2 1 97 1 0 97
40 50	1 0 1 0	3 300 3 310	3 1 74 1 0 74	680 640	3 1 88 1 0 88
€5	ž i	4 320	3 1 75	700	2 1 89
70 2 3	1 U 2 1	4 330 5 340	2 1 76 1 0 76	720 740	2 1 90 1 0 90
50 100	9 3	6 360 25 365	4 1 78 1 0 78	750 768	1 0 90 1 0 91
110 120	7 3	32 370 44 380	1 0 78 7 2 80	780 800	1 0 91 2 1 91
133	72	46 390	1 0 81	828	1 0 72
146 150	32 10 3 1	56 400 57 4⊋0	1 0 81 2 1 82	840 860	1 0 92
160 170	10 3 3 1	61 450 62 430	1 0 82 1 0 62	870 890	1 0 73 1 0 93
185	7 2	64 500	4 1 84	940 950	1 0 93
170 203	1 0	64 514 66 520	2 1 85	980	1 0 94
226 233	1 0	66 540 67 560	1 0 65 1 0 65	769	17 6 100
943	7 9	69 570	1 0 85		

EWIF (EXPOSED HAL	IN FOOTPRINT	-		
COUNT	MIDPOINT	ONE SYMBOL	EGUALS APPRO	DXIMATELY 4.0	O OCCURRENCES
9	~ 22	**			
15	70	***			
155	118	*****	*****	*********	L
23	160	****			•
9	214	**			
21	595	****			
9	310	**			
14	358	4444			
4	406	•			
1	454				
8	502	**			
3	550	*			
2	598	*			
8 3 5 3 4	645 694	*			
3	742	*			
4	792	*			
3	838	*			
ž	886 886		•		
ī	934	•			
21	982	****			
	1	 1	.	I. .	
	C		80	120 14	
		HISTO	GRAM FREGUE	NCY	
MEAN	259. 382	STD ERR	15. 103	1489 = 444	
HODE	100.000	STD DEV	268. 893	MEDIAN	140.000
XURTOSIS	1. 644	SEKURT	1.994		2303. 306
S E SKEU	. 137	RANGE	995. 000	SKENNESS HINIMUM	1.684
MAXIMUH	979, 000		5394.000	MINIMON	4. 000
PERCENTILF	VALUE	PENCENTILE	VAI UE	PERCENTILE	VALUE
10.00	100. 000	25. 00	100.000	22.22	
50, 60	140.000	66. 70	240.000	33. 30 75. 00	120. 000
90 00	753.600	55. 7 5	270.000	/3. U U	320. COO
VALID CASES	317	MISSING CAS	ES 0		

AVERAGE HALL HEIGHT

VALUE LASEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	15	28	8. 8	8. 8	8. 8
	18	4	1.3	1.3	10. 1
	50	65	20.5	20. 5	30. 6
	25	26	8. 8	8. 6	34. 4
	30	86	27. 1	27. 1	66. 6
	35	13	4. 1	4. 1	70. 7
	40	2 8	ē. 8	8. 8	
	45	2			79. 5
	50	_	. 6	. 6	80. 1
		1	. 3	. 3	80. 4
	55	1	3	. 3	80. B
	60	10	3. 2	3. 2	83 . 9
	65	1	. 3	. 3	84. 2
	70	5	. 6	. 6	84. 9
	75	1	. 3	. 3	85. 2
	80	7	2. 2	2. 2	87.4
	85	3	. 9	-, 9	88. 3
	90	3 5	1.6	1.6	89. 9
	100	6	1. 9	1. 9	91.8
	110	1	∵.3	3	92.1
	120	ž		9	93. 1
	125	1	. 3	. 3	93. 4
	130	•	. 3		
	150	•	. 3	. 3	93 . 7
	150		. 🔰	. 3	94. 0

AVERAGE HALL HEIGHT

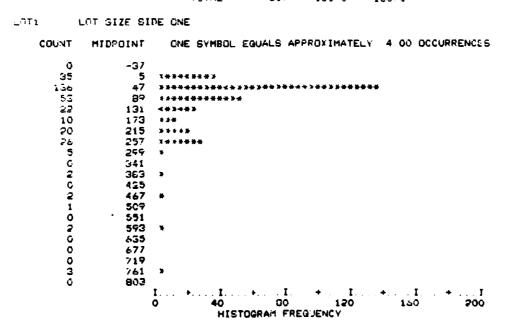
VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	160	1	3	. 3	94. 3
	190	1	. 3	. 3	94.6
	170	2	. 6	. 6	75 .3
	200	1	. 3	. 3	95. b
	210	2	6	. 6	96. 2
	220	2	. 6	. 6	96.8
	225	1	. 3	. 3	91.2
	230	1	. 3	. 3	97. 5
	240	1	. 3	. 3	97. 8
	250	i	. 3	, 3	98 . 1
	260	i	. 3	. з	98. 4
	260	i	. 3	. 3	98. 7
	330	ĩ	. 3	. 3	99. 1
	400	i	. 3	. 3	99.4
	500	i	. 3	. 3	99. 7
	670	i	3	. 3	100.0
	TOTAL	317	100 J	100.0	

.. AUSSAGE HALL METONT

.71	ACULIAE MAC.	HC 1 4:11	
COUNT	MIDPOINT	ONE SYMBOL EQUALS APPROXIMATELY 8.00 OCCU	RRENCES
224	23	****	
45	56	44<## *	
22	89	4¥#	
ઠ	123	•	
2	155		
4		>	
6		•	
3	254		
1	287		
1	320		
O	353		
1	366		
Ō	419		
Q	452		
0	485		
0	518 551		
0	551 584		
1 0	617		
ŏ	550		
1	683		
•	I		+ 1
	Č		400
	_	HISTOGRAM FREGUENCY	
Int Alz	49. 675	STD ERR 3.971 MEDIAN 30. STD DEV 70.696 VARIANCE 4997.	000
1:0CE	30.000	STD DEV 70.696 VARIANCE 4997.	
KURTOSIS	35. 132	S E KURT 1.994 SKEWNESS 5.	
S E GMEU MAXIMUM	. 137	RANGE 675.000 HINIHUH 15.	000
MAX I mud	470. 000	SUM 15747. 000	
PERCENTILE	UAL LIF	PERCENTILE VALUE PERCENTILE VA	LUE
F 600 600 1 3 5 5 5	*******		
16 00	18.000	25.00 20.000 33.30 25.	000
50 OC		56. 70 35. 000 75. 00 40.	COO
90. GS	100.000		
VALID CASES	317	MISSING CASES 0	

LOTI	LOT	SIZE	SIDE	ONE

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	15	2	. 6	. 6	. 6
	50	23	7.3	7.3	7. 9
	25	10	3. 2	3. 2	11.0
	30	17	5. 4	5. 4	16.4
	35	3	. 9	. 9	17.4
	40	36	11.4	11.4	28. 7
	45	1	. 3	. 3	29.0
	50	59	18.6	18.6	47.6
	60	17	5. 4	5. 4	5 3. 0
	55	3	. 9	. 9	5 3. 9
	70	ē	2. 5	25	56. S
	75	2	6	. 6	57 . 1
	80	12	3. 8	3. B	60.9
	90	2	6	. 6	61.5
	100	29	9. 1	9. 1	70.7
	110	2	٠. ف	6	71.3
	120	8	2. 5	2.5	73 8
	130	1	3	3	74. 1
•	150	11	3. 5	3. 5	77.6
	156	1	. 3	. 3	77. 9
	160	3	. \varTheta	· 9	78. 9
	170	2	. 6	. 6	7 9 5
	180	3	. 9	. 9	80 4
	170	1	. 3	. 3	80. S
	200	15	4 7	4 7	85 5
	207	1	. 3	3	85 3
	210	1	3	. 3	86 1
	220	1	. 3	. 3	86 4
	225	1	3	3	86 8
	230	1	. 3	. 3	8 7 1
	240	1	. 3	. 3	87. 4
	250	6	1 9 5 7	1 9	89 3
	2.54	18		5. 7	95 0
	270	1	. 3	3	95 3
	240	2	. 6	. 🕳	95 7
	300	3	9	. 9	96. 8
	400	2	. 6	. 6	97 5
	450	1	. 3	. 3	97 B
	470	1	3	. 3	98 ı
	500	1	. 3	. 3	98.4
	600	2	. 6	. 6	99 1
	750	3	9	. •	100 0
	TOTAL	317	100 0	100.0	



Mean Mode Kurtosis S e skeu Maximum	108. 596 50. 000 10. 457 . 137 750. 000	STD ERR STD DEV S E KURT RANGE SUM 3	6.433 114.529 1.994 735.000 4425.000	Median Variance Skehness Minimum	60.000 13116.693 2.780 15.000
FERCENTILE	VALUE	PERCEN) ILE	VALUE	PERCENTILE	VALUE
10.00 50.00 90.00	25, 000 60, 000 264, 000	25. 00 66. 70	40. 000 100. 000	33. 30 75. 00	50. 000 150. 000
VALID CASES	317	MISSING CAS	EF 0		

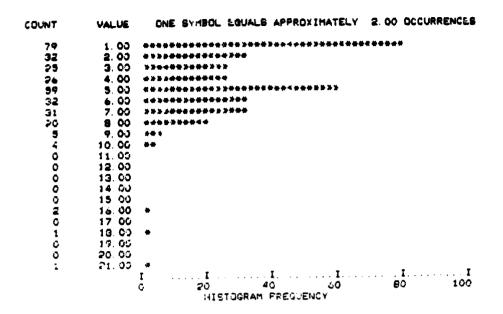
LOTE LOT SIZE SIDE TWO

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	20	5	1.6	1.6	1.6
	30	15	4.7	4. 7	6.3
	35	1	. 3	. 3	6.6
	40	42	13. 2	13. 2	19.9
	45	5	1.6	1.6	21.5
	50	53	16.7	16.7	38. 2
	60	36	11.4	11.4	49. 5
	70	14	4. 4	4. 4	5 3. 9
	75	2	. 6	. 6	54.6
	80	25	7. 9	7. 9	62. 5
	90	6	1. 9	1. 9	64. 4
	100	23	7. 3	7. 3	71.6
	110	3	. 🕈	. 9	72. 6
	120	9	2.8	2. 8	75. 4
	130	2	. 6	. 6	76.0
	135	' <u>1</u>	3	. 3	76. 3
	140	4	1.3	1.3	71.6
	150	12	3. 8	3.8	81.4
	160	5	1.6	1.6	E3 . 0
	130	3	. 9	. 9	83. 9
	200	15	4. 7	4. 7	88. 6
	210	2	. 6	. 6	89. 3
	5>0	2	. 6	. 6	89. 9
	230		. 3	. 3	90. P
	240	1 1	. 3	. 3	90. 5
	250	1	. 3	. 3	90.9
	264	17	5. 4	5. 4	96. 2
	290	1	. 3	. 3	96.5
	300	3	. 9	9	97. S
	350	1	. 3	. 3	97.8
	360		. 3	. 3	98 . 1
	400	1 2 3	. 6	. 6	93 . 7
	500	3	. 9	. 😜	99.7
	600	1	. 3	. 3	100.0
	TOTAL	317	100.0	100.0	

Lota L	OT SIZE SI	IDE THO	
COUNT	MIDPOINT	DNE SYMBOL EQUALS APPROXIMATELY 4.00 OCCURREN	NCE S
63	30	4>>>*****	
106	59	*****	
33	86	*****	
ે5	114	* •< * * > • * *	
19	142	****	
8	170	>+	
17	178	4+44	
3	226	•	
19	254	4433#	
i	262		
3		•	
1	338		
<u>i</u>	366		
2	394	•	
0	422		
0	450		
0	478 504	•	
9 9	534	•	
ŏ	5e2		
i	590		
•	• • • • • • • • • • • • • • • • • • • •	I + I + I + I + I +	. 1
			200
		HISTOGRAM FREGUENCY	
HE AR	102. 943	STD ERR 4. 976 MEDIAN 70. 000	
I:ODE	50.000	STD DEV 38.591 VARIANCE 7848.452	
KURTGEIE	6. 472	S E KURT 1.994 SKEWNESS 2.261	
S E SKEU	. 137	RANGE 530.000 MINIMUM 20.000	
MAKINUM .	600. 000	SUM 32633.000	
PERCENTILE	VALUE	PERCENTILE VALUE PERCENTILE VALUE	
10 03	40.000	25.00 50.000 33.30 50.000	
5 0. 90	70.000	66. 70 100. 000 75. 00 120. 000	
90. 0 0	232, 000		
VALID CASES	317	MISSING CASES 0	

WEGILD NUM ADDITIONAL BUILD IN FOOT

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	1	79	24. 9	24. 9	24. 9
	2	32	10.1	10 1	35.0
	3	25	7. 9	7.9	42.9
	Ž	26	8.2	8.2	51. i
	5	59	18.6	18.6	69 7
	ě	32	10.1	10.1	79 8
	7	31	9.8	9.8	89.6
	8	20	6.3	6.3	95.9
	ě	5	1.6	1.6	97.5
	10	4	1.3	1.3	98 7
	16	ž	. 6	. 6	94 4
	16	<u> </u>	. 3	3	99 /
	21	i	. 3	. 3	100.0
	TUTAL	317	100.0	100.0	



MAGICO - NUM ADDITIONAL BUILD IN FOOT -

boose consists according to the control of the cont

nean NODZ POPTOSIS S E SKEU MAXINJN	4, 233 1, 000 4, 892 , 137 21, 000	SID ERR SID DEV S E KURT RANGE SUM	. 163 2. 905 1. 994 20. 000 1342, 000	median Variance Skeuness Minimum	4.000 8.464 1.389 1.000
FFRCENTILF	VALUE	PERCENTILE	VALUE	PERCENTILE	VALUE
10 00 50 00 70 00	1.000 4.000 8.000	25. 00 66. 70	1, 500 5, 000	33. 30 75. 00	2. 000 6. 000
VALID CASES	317	MISSING CAS	SE# 0		

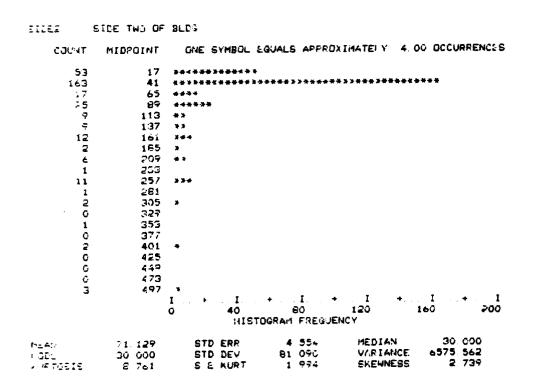
SIDE ONE OF BLDG

				VALID	CUM
VALUE LABEL	VALUE	FREGUENCY	PERCENT	PERCENT	PERCENT
	15	9	2. 5	2. 5	2. 5
	20	64	20.2	20. 2	22 . 7
	25	14	4. 4	4. 4	27. 1
	30	59	18.6	18. 6	45. 7
	35	6	1. 9	1.9	47. 6
	40	39	12.3	12. 3	59. 9
	45	ž	• • •	9	60. 7
		15	4.7	4.7	65. 6
	50	1.7	Ĩ.á		65. 9
	55		2.5	2 5	69.5
	60	8			69. 1
	65	2	. 6	. 6	
	70	5	16	. 1. <u>6</u>	70. 7
	75	1	. 3	. 3	71.0
	90	5	1.6	1. 6	72 . 6
	90	4	1.3	1. 3	73. 8
	100	12	3.8	3. E	77. b
	110	. 5	4	. •	79. 2
			2 2	2. 2	80. 4
	150	′		7.3	80 6
	130	1	. 3		50. 6

140	i	. 3	. 3	81. 1
150	ě	2.5	2.5	83 6
156	1	. 3		63. 9
160	3	. •	. 9	84. 9
170	1	3	З	85. 2
180	3	. 9	. •	86. 1
170	1	. 3	. 3	86. 4
200	10	3. 2	3. Z	87.6
207	1	. 3	. 3	69.9
210	1	. 3	. 3	90. 2
225	1	. 3	ÌЭ	90. 5
230	1	. 3	Ĵ	90. 9
240	1	. 3	. 3	91.2
250	1	. 3	Ĵ	91.5
254	13	4. 1	4. 1	95.5
270	1	. 3	. 3	95.7
240	1	. 3	. 3	96. 2
300	3	. 9	. 9	9/.2
320	1	. 3	. 3	97.5
400	2	. 6	. 6	98. 1
500	1	. 3	. 3	98. 4
600	1	. 3	. 3	98.7
753	1 3	ę	٤.	95
800	ì	. 3	3	100.0
rets.	-	100 0	1.50	

SICEL	SIDF ON- OF	BLDG
COUNT	MIDPOINT	CNE SYMBOL EQUALS APPROXIMATELY 4.00 OCCURRENCES
193	28	
37	66	4+4+4+4
25	104	*****
14	142	***
5	150	*
14	216	****
16	256	+**
4	294	•
1	332	
O	370	
2	408	•
O	446	
i	484	
o o	522	
Q	5 6 0	
1	598	
Ç	635	
Ġ	674	
o s	712	
1	750 768	•
ı.		
		I
	`	0 40 90 120 160 200 HISTOGRAM FREQUENCY
		113 TOWNER FREQUENCY
tre Att	84, 590	STD ERR 6.473 HEDIAN 40.000
1:500	20,000	STD DEV 115.252 VARIANCE 13283.084
*URTOSIS	15.316	S E KURT 1.994 SKENNESS 3.451
S E SKEN	137	RANGE 785.000 HINIMUM 15.000
mak Incert	300,000	SUM 26315, 000
FORCENTILE	VALUE	PERCENTILE VALUE PERCENTILE VALUE
10 00	70 000	25. 00 25. 000 33. 30 30. 000
5 0 33	40,000	25. 00
90 00	213 000	20.70 20.000 75.00 100,000
	=	
WALIE CASES	317	Hissing cases o

		FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
VALUE LABEL	VALUE	LMEGIOEIAC I	PERCENT	PERCENT	PERCENT
	14	1	. 3	. 3	3
	20	35	11.0	11.0	11.4
	25	17	5. 4	5. 4	16.7
	30	10€	34 1	34.1	50 . 8
	35	ŝ	. 9	. 9	51.7
	40	35	11.0	11.0	62.8
	50	17	5 4	5.4	68. 1
	55	1	. 3	. 3	62. 5
	60	16	3.2	. 3 3. 2	71.6
	70	6 5 5	1 9	1.9	73 5
	90	5 .	1 6	1.6	75. 1
	90	5	1.6	1.6	76.7
	100	15	4.7	4 7	61.4
	110	i	3	. З	81.7
	120	6 3	25	25	64. F
	1 30	3	ė	, 9	85. ମ
	135	1 50 2 2 3 1 2 1	3	3	85. 5
	.40	5	16	1.6	8 7. 1
	150	10	3.2	3 2	90 2
	150	2	Ł	t	90.9
	180	2	. 6	. 6	91.5
	200	3	9	. 9	92.4
	210	1	. 3	. 3	92.7
	220	2	. 6	. 3	93. 4
	230	1	3	3	93. 7
	264	11	3 5	3.5	97. 2
	240	1	. 3	3	97. 5
	300	2	. 6	. 6	98.1
	350	1 2 1 2 3	. 3	3	96.4
	400	2	. 💪	. 6	99.1
	500	3	. 9	, e	100.0
	TOTAL	317	100. G	100.0	



s e ckeu Kaxinuk	. 137 500. 000	RANGE BUM 2	486. 000 2548. 000	HININUM	14. 000
PERCENTILF	VALUE	PERCENTILE	VALUE	PERCENTILE	VALUE
16.60 59.00 79.00	20, 000 30, 000 152, 000	25. 00 66. 70	30. 000 50. 000	33. 30 75. 00	30. 000 85. 000
VALID CASES	317	MISSING CAS	Ek		

TYPE STRUCTURE TYPE-USAGE

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
1 UNIT STRUCTURE	1	151	47.6	47.6	47.6
2 UNITS	2	14	4. 4	4. 4	52. 1
3 TO 4 UNITS	3	4	1.3	1.3	53. 3
S TO 9 UNITS	4	4	1.3	1.3	54. 6
10 TO 19 UNITS	5	7	2. 2	2, 2	56. 8
20 TO 49 UNITS	6	5	1.6	1.6	58. 4
OFFICE BUILDING	ē	21	6.6	6.6	45.0
COMMERCIAL BUILD	9	63	19.9	19.9	84. 9
INDUSTRIA!	10	20	6. 3	6.3	91.2
EDUCATIONAL	11	9	2. 8	2. 8	94. 0
RELIGIOUS	12	5	1.6	1:6	95.6
H-ALTH BUILDING	13	ž	. 6	. 6	96.2
OTH-R	15	12	3. 8	3. 8	100.0
	TOTAL	317	100.0	100.0	

COUNT	VALUE	ONE SYMBOL	EQUALS APPRO	XIMATELY 4.	00 DCCURRENCES
151	1.00	********	*********	******	*
14	2.00	****			
4	3. 00	*			
4	4. 00	•			
7	5. 90	# >			
5	6.00	>			
7 5 0	7. 00				
ខា	8.00	****			
63	9.00	4 34 *******	>>++		
\$0	10.00	*****			
	11.00	**			
9 5 2 0	12.00	•			
ž	13.00	*			
5	14. GO				
12	15.00	***			
••		I I	I	I	1 1
		0 40	30	120	160 200
			TOGRAM FREGUE		

r-EAN	4. 959	STD ERR	. 248	HEDIAN	2.000
1:002	1 000	STD DEV	4.415	VARIANCE	19.495
MURTORIS	-1.125	S E KURT	1. 994	SKENNESS	535
S E SKS	137	RANGE	14.000	MINIMUM	1.000
er na Zincaer	15 000	SUM	1572.000	***************************************	
• •					

TYPE STRUCTURE TYPE-USAGE

PERCENTILF	VALUE	PERCENTILE	VALUE	PERCENTILE	VALUE
10.00 50.00 70.00	1.000 2.000 10.000	25. 00 66. 70	1. 000 9. 000	33. 30 75. 00	1. 000 9. 000
VALID CASES	317	MISSING CASES	. 0		

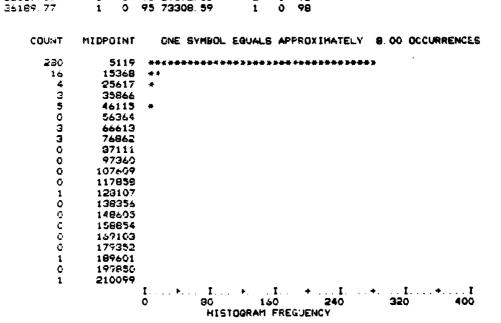
Spatial areas of building material types

APAIN: APEA: PAINTED SURFACE

VA: UE	FREG	PCT	CUI1 PCT	VALUE	FREQ	PCT	CUM PCT	VALUE	FREG	PCT	CUM PCT
0.116.2243.44.5004.2307.3265.27.5517.32.450.27.557.62.456.1544.560.14.4.66.257.5517.32.450.1545.01.44.66.257.557.62.450.1545.01.44.458.90.90.577.2357.2357.2357.2357.2357.2357.2357.		0 0 0	55 66 67777888999991001111112221333944445551666777788889999910011111122213339444455516666777788899999	186 92 191 49 193 42 193 42 219 04 210 65 219 15 215 36 221 37 240 37 240 37 240 37 240 87 274 81 274 81 274 87 274 87 276 87 276 87 277 877 877 877 877 877 877 877 877 877			20 20 21 11 22 22 23 23 23 24 24 25 25 26 26 27 27 28 28 29 29 30 30 31 31 32 22 25 35 35 35 35 35 35 35 35 35 35 35 35 35	396. 87 398. 73 400. 69 406. 07 410. 66 415. 89 425. 25 426. 59 444. 85 475. 29 477. 27 479. 29 482. 68 491. 29 491. 29 492. 33 507. 60 518. 65 518. 65 538. 65 554. 91 589. 60 627. 53 627. 656. 79 664. 66 694. 66 694. 703. 28 735. 00 741. 73 755. 755 747. 73 755. 74			34 35 35 36 36 37 7 7 7 8 8 8 9 9 9 9 0 0 0 0 1 1 1 1 2 2 2 3 3 3 4 4 4 4 4 4 5 5 5 4 6 6 6 7 7 7 7 8 8 8 9 9 9 9 0 0 0 0 1 1 1 1 2 2 2 3 3 3 4 4 4 4 4 4 5 5 5 6 6 6 7 7 7 7 8 8 8 9 9 9 9 0 0 0 0 1 1 1 1 2 2 2 3 3 3 4 4 4 4 4 4 5 5 5 6 6 6 7 7 7 7 8 8 8 9 9 9 9 0 0 0 0 1 1 1 1 2 2 2 3 3 3 4 4 4 4 4 4 5 5 5 6 6 6 7 7 7 7 8 8 8 9 9 9 9 9 0 0 0 0 1 1 1 1 1 2 2 2 3 3 3 4 4 4 4 4 4 5 5 5 6 6 6 7 7 7 7 8 8 8 9 9 9 9 9 0 0 0 0 0 1 1 1 1 1 2 2 2 3 3 3 4 4 4 4 4 4 5 5 5 6 6 6 7 7 7 7 8 8 8 9 9 9 9 9 0 0 0 0 0 1 1 1 1 1 1 2 2 2 3 3 3 4 4 4 4 4 4 4 5 5 5 6 6 6 7 7 7 7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9
AFAINI	AREA:	PAIN	TEB CUM	SURFACE			CUH				CUH
الما لام	FREG		PCT	VAL UE	FREG		PCT	VALUE	FREG		PCT
74G 16 931.17 622.64 626.23 637.45 657.27 682.37 901.24 777.44 779.35 1012.03	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0000000000000	49 50 50 50 51 51 51 52 52 53	1795. 71 1799. 34 1807. 69 1816. 36 1825. 84 1859. 23 1903. 73 1747. 83 1747. 83 1756. 27 2006. 35 2058. 82 2071. 23	111111111111111111111111111111111111111	0000000000000	63444655566667777	3292. 68 3340. 63 3345. 40 3543. 75 3604. 40 3697. 60 3787. 80 3819. 96 3622. 56 3684. 21 4406. 56 4552. 58 4573. 88	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000000000000	78 79 79 79 79 80 80 81 81 82 82

1059, 25	1	0	53	2136. 26	1	٥	68	4793. 48	1	0	83
1075, 74	1	0	53	2176. 74	1	0	68	5104. 97	1	0	B 3
1076. 78	1	0	54	2273.76	1	0	68	5105.64	1	0	83
1112. 53	1	C	54	23/4.53	1	0	68	5232. 43	1	0	83
1113.21	1	0	54	2411.29	1	٥	69	5271. 75	1	٥	84
1159. 41	1	ō	55	2449. 54	1	٥	69	5696.00	1	Ō	84
1165.67	1	0	55	2494. 64	1	0	69	7140, 40	1	٥	84
1170 00	ì	٥	55	2513, 68	1	Ó	70	7335, 96	1	0	85
1137.63	i	ō	56	2591.30	1	ō	70	7637, 92	i	ō	85
1195 87	1	Ō	56	2639, 10	1	0	70	8056. 04	1	Ō	85
1206.33	i	Ŏ	56	2676. 72	ĭ	ō	71	8066. 21	i	ō	85
1218 97	ĭ	ŏ	56	2682. 29	1	ō	71	B113, 43	1	Õ	86
1220 11	i	ŏ	57	2689. 50	1	ō	71	8192.77	i	ō	86
1302 33	ī	š	57	2713. 24	i	ō	72	8251.74	3	1	87
1307. 20	ī	ō	57	2721. 43	1	ŏ	72	8315.38	ī	ō	87
1333 78	i	3	58	2751.05	ž	1	73		ī	ō	38
1423 25	i	ŏ	58	2767. 44	1	ō	73		1	ō	88
1455 12	i	ō	58	2776. 27	i	ō	73		i	ō	88
1472 73	•	ŏ	59	2777. 78	•	ŏ	_	10314.05	i	ŏ	39
1479.60	i	ŏ	59	2789. 62	•	ŏ		10333. 76	i	ŏ	89
1505.63	•	ŏ	59	2742.24	i	ŏ	-	10523.73	i	ŏ	89
1513 14	•	ŏ	60	2878.40	i	ŏ		11437. 81	i	ŏ	90
1545, 16	•	ŏ	60	2916. 81	i	ŏ		11549. 13	:	ŏ	90
1573 20	•	ŏ	60	2964. 71	i	ŏ	-	11635, 22	•	ŏ	90
1593. 27	*	ŏ	61	2973. 19	i	ŏ		11672. 20	•	ŏ	71
1624 97	•	ŏ	61	3025. 93	i	ŏ		12268. 80	i	ŏ	91
1707.65		ŏ	61	3103.76	i	ŏ	-	12569. 93	i	ŏ	91
1715 03	•	ŏ	62	3119.86	i	ŏ	_	13153. 97	1	ŏ	71
1725 41	•	ŏ	62	3184 01	i	Č	_	13278.67	1	Ö	92
	•	Ö	62	3194 59	i	Ö		13323.97	1	Ö	92
1730 43	1	-			-	-				-	72
1731 51	1	0	65	3224 41	1	0		14545 45	1	Ŏ	
1735 3	1	ე ა	63	3252 GC	1	ő		15915.40	<u></u> .	0	93 93
1774 22	1	U	e P	3255 86	1	Ç	78	18695 53	1	v	

APAINI	HKEN.	PAI	NIED	SURFACE							
			CUi1				CUit				CUM
VA! UE	FREG		PCT	VALUE	FREQ	PCT	PCT	VALUE	FREG	PCT	PCT
19502.28	1	Ō	93	37812. 62	1	٥	96	75977. 16	1	0	99
21804 42	1	3	94	44899.70	3	1	97	80116.86	1	0	99
22130.67	1	0	94	44955.00	1	0	97	132620. 1	1	0	99
23493, 24	1	0	94	47789. 61	1	0	97	185065.3	1	0	100
28731 57	1	0	95	68917. 32	1	0	97	215219.7	1	0	100
33557.57	1	0	95	69072.13	2	1	98				



NEAR	6401. 541	STD ERR 1174.619	MLDIAN	826, 230
NODE	0. 0	STD DEV 20913.497	VARIANCE	437374351
KURTOSIS	52. 744	S E KURT 1.994	SKEWNESS	6, 600
S.E. SKEN	137	RANGE 215218.667	MINIMUM	0, 0
	715710 457	CIM 2020288 37		

AFAINT AREA: PAINTED SURFACE

PERCENTILE	VALUE	PERCENTILE	VALUE	PERCENTILE	VALUE
10.00 50.00 70.00	74, 308 826, 230 11842, 617	25. 00 66. 70	280. 797 2060. 139	33, 30 75, 00	374, 278 2968, 949
WALTD CASE	S 317	MISSING CAS	SES 0		

AREA: MORTAR / MASONRY SURFACE -

FUDE I	AKEA:	TUT	107 /	MASURER	BURFAGE	•					
VA! UE	FREG	PCT	CUH PCT	VALUE	FREG	PÇT	CUI4 PCT	VALUE	FREG	PCT	CUM PCT
	41	 13	13	905. 25	1	0	28	1706. 02	1	٥	43
0.0 8.97	1	7.3	13	934. 05	1	ŏ	28	1709.38	1	0	43
9 62	i	õ	14	951.22	ī	Õ	28	1734.94	1	٥	43
10 15	1	ŏ	14	957. 41	ī	õ	-	1735. 54	1	0	44
37, 54	i	ō	14	930, 80	1	0	29	1737. 93	1	0	44
46, 22	1	ŏ	_	1060, 47	1	٥	59	1766.49	1	0	44
108 60	ī	ō		1075. 55		0	30	1805. 37	1	0	44
117, 12	i	0	15	1107.69	5	1		1819. 15	1	٥	45
200, 30	1	0	15	1147. 17	1	0		1827. 34	1	٥	45
204, 27	1	0	16	1157. 56		0		1843. 27	1	0	45
206, 42	1	0	16	1130, 22		0		1847.79	1	0	46
211 97	1	0	16	1183.64		0		1681 15	1	Ŏ	46
222, 22	1	٥		1197.63		0		1882. 97	1	0	46 47
240, 00	1		-	1173. 43		0		1690.50	1	0	47
248 95	2			1213.87		0		1927.69	1	0	47
254, 60	1			1245. 04		0		1959.63	1 1	Ö	48
259, 37	1	_		1254. 10				1967, 90 1974, 75	1	ŏ	48
240,30	1		_	1302. 25		-0		2004.40	1	ő	48
263.74	1			1329. 78				2009.13	. 1		49
264.71	1			1371.73			_	2013.96	1	ŏ	49
273. 76	1			1387, 28 1404, 46				2051 04	i	-	49
274 87	i			1419. 20		_		2075.49	ī	_	
288 63	1			1447. 45				2082.51	i	_	
273.51	1			1470. 72		_		2088 16	1		50
273 67	1			1480.71		_		2102. 98	1	٥	50
315.79	1			1482.50				2110.48	1	0	51
316 41 320 95	i			1485.29			37	2132.77	1	0	51
323 23	1			1496.7			37	2145.57	1	0	
338.35	i			1500.00			37	2165.12	1		
339 27	i			1511.26	_		38	2170. 93	1		
336.96	i			1517.17			38	2182 98	1	_	
370.64	1		23	1542. 68	3 1		38	2196.06	1	_	
409 07	1		24	1552.50) 1		38	2218.26	1	_	
429 50	1	. (24	1554.00			-	2220.71	1	_	
439 02	1	. (24	1592.10) 1			2223 68	1	_	
468.59	1	. (25	1593.65				2225 19	1	_	
482 37	1	. (25	1577.59		-		2226.32	1		
636 32	1	. (25	1649. 5			40	2241.28	1		
648 03	1	-	36	1561.54			40	2281.03	1		
652 03	1		26	1664.74		-	3 41	2289. 47	1		_
812.37		-	36	1665.5			41	2325 75	1		
817 as		-	3 5	1671.4			2 41	2354 99 2407 60	_		-
613 73		-	0 27	1630 00			0 42	2407 60 2427 35			
£7- 77		-	27	1635 4		. (42			1 0	
- · ·		n i	0 ==	1696 0	0	ι,	ુ 4⊋	24 38 52		, ,	

4.10RT	AREA: MORT	ΓAR ,	MASONEY	SURFACE	<u>.</u>				
(や) ひき	FREG PCT	CUM PCT	VALUE	FREG	PCT	CUM PCT	VALUE	FRE0	CUM PCT PCT
244E 69	1 0	57	3554 43	1	Ç.	71	9332 79	i	0 მა
2454 79	1 3	57	3556 14	1	ō	72	9631.82	1	0 87
2470, 59 2484, 94	1 0	58 56	3596 76 3589 09	1	0	72 72	9701, 27 9303, 27	1 1	0 87 0 87
2496 27	1 0	58	3634 62	î	ŏ		10694 96	i	0 36
2533 65	1 0	59	3728.84	1	Ü	_	12400.16	1	0 88
2557, 97 2590, 20	1 0	59 59	3765 62 3892 49	1	0		12626 86 13058 07	1 1	0 38 0 89
2636 +1	iõ	60	3921 79	i	ō		14082 23	i	0 89
2647 06	1 0	60	3941.16	i	ō		16342.11	1	0 87
2673 57 2689 53	1 0	60 61	3964, 40 3994, 98	1	ς Θ		17536 00 18096 27	i 1	0 90 0 90
2 6 90 48	1 0	61	4018 21	1	č	- 5	18232 26	1	0 90
2703 49	1 0	61	4090 91	1	o		18627 45	1	0 91
2730, 00 2743, 33	1 0	62 62	4124 70 4170 57	1	0		19c05 25 19706, 40	i 1	0 91 0 91
2806 53	1 0	62	4317 01	5	1		19873 43	1	0 91
2836 49 2846 41	1 0	62	4320 17 4482 50	1	0	77 77	20147 99	1	0 92 0 92
2850 62	1 0	63	4474 56	1	ō		22270 40	1	0 92
2604 98	1 0	٤3	4489 32	1	Ç		22444 06	1	0 93
2655 75 2921 74	1 0	64 64	4544 89 4547 37	1	0	78 79	23479 EP 24182 15	1 1	0 43 0 93
2926 43	i ö	64	45/7 75	ì	č		25611 14	i	ŭ 94
297 <u>6</u> 75 3834 25	1 0	65	4636 24 4699, 78	1	Ō		2/137 22 28629 35	1	0 74
3034 2- 3078, 13	1 0 1 0	65 65	490E. 64	1	0		29722 31	1	0 94 0 95
3094 74	1 0	66	4952 94	1	0	60	30006 65	i	0 95
3134 75 9147 40	1 G	66 66	477 7 40 537 0 37	1	ە 5		35764 00 35851 55	1 1	0 75 0 76
3150 10	i G	67	5425 60	1	Q.		38981 25	1	36 0
3193 67	1 0	67	5786 79	1	0		41461 26	1	0 %
3211 76 3226,17	1 0	67 68	6045.36 6856.61	1 3	0 1		43138, 10	1 1	0 97 0 97
3232 65	i o	68	689 3 77	ĩ	ō		41723 50	1	0 97
3236 07	1 0	66	6910 40	1	0		48098 27	1	0 97
3246 62 3304.35	1 0	66 69	6941 50 6990 99	1	0		51222 61 52129 42	1 1	0 78 0 78
SST9 45	1 G	69	7133, 75	ì	ō		59217 67	1	0 92
3369 27 7354 32	1 0 1 0	65 70	7492 50 2017 65	1	0		64358 85 64358 81	1	0 97 0 97
3451 2	1 0	70	8109 32	1	C.		82501 33	i	0 97
2512 75	7 5	70	E166 18	2	-	-	94537 84	1	0 100
2827 21 28 7 2	1 0	-	.8562 41 .€145 41	1	4	E o	Aminic c	1	0 101
		•		•					
COUNT	MIDPOINT	6 :	NE SYMBO	_ EQUALS	S API	FAGX	IMATELY 8	00 000	URRENCI S
254	3365	**<	*****	*****	***	+ > + + + 1	****		
32	10099	***							
:1 5	16833 23567	*							
545454646010101000	30301	•							
3 2	37035 43769								
3	50503								
1	57237 63971								
0	70705								
Ģ.	77439								
1 6	941 73 90907								
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		0	80	16 STOGRAM	505	S DEFENS	240	320	400
			HI	o i uga Ari	r N E (a JEN(. 1		

######################################	STD ERR 815.455 STD DEV 14518.767 S E KURT 1.994 RANGE 141410 394 SUM 2024158.75	MEDIAN 2088 157 VARIANCE 210794451 SAEWNESS 4 902 MINIMUM 0.0
FURCERTILE VALUE	PERCENTILE VALUE	PERCENTILE VALUE
10 00 0.0 50 00 2008 157 50 00 18359 301	25, 00 559, 356 66, 70 3195, 591	33 30 1297. 147 75. 00 4054. 559
VALID CASES 317	MISSING CASES 0	

45701-5	AREA	STON	1E 50	RFACE							
(4) <u>05</u>	FREG	PCT	CUA PCT	VALUE	FREG F		CUN PCT	VALUE	FREG P	CU PC	
3 c	159	60	60	298. 90	1	G	73	741.18	1	0 8	7
50 14	1.37	o O	60	299.15	i	ō	74	742.59	1	0 8	7
50 10 53 60	i	ő	60	302.59	1	ō	74	634.91	1	-	7
102 23	ī	ō	61	311.91	1	0	74	660.15	1	_	8
131. Ia	1	ō	61	313. 25	1	0	74	911.57	1		8
152 27	1	0	61	320.00	1	0	75	916. 47	1	-	8
153, 85	1	0	62	320. 40	1	G	75	984. 13	1		9
157, 50	1		65	325. 63	1	0	75	1090. 60 1133. 63	1		17
176 85	1	0	62	328. 25	1	٥	76 76	1153. 65	i	-	ó
127 30	1	_		331 95 342, 61	1 1	ŏ	76	1156 70	i		ō
125 30	1	_		344 12	i	ŏ	77	1167 52	i		Ō
193 41 197 37	î		63	347, 18	ī	ō	77	1189.37	1		1
200 0:	i			349 26	1	ō	77	1196.38	1	•	71
206 61	ī		64	350 11	1	0	78	1378.02	1	-	1
2 07 75	1	0	64	35 ₆ 54	1	C	78	1556 36	1		1
210.37	1	0	65	362 79	1	٥	78	1604.58	1		5
212 20	1			370 37	1	٥	79	1668.92	1		12
2:3 22	1			3 87 93	1	ç	7 9 7 9	1690.00 1785.11	. 1		3
213 B.	1			393.44	1 1	٥	79 79	1835.29	1		3
2:6 2-	1			377, 96 379 5 6	1	č	60	1963.35	i	-	23
216 52 276 24	1			403.43	1	ŏ	80	2032. 88	1		74
225 50	1			416 60	ī	ō	80	2239 58	1	•	4
227 5	i	_		423. 39	1	9	81	2256 93	1	-	4
	1		_	423 53	1	C	٤ì	2606 54	1		75
257.5	1		66	443 02	1	Ç	E 1	3552 53	1		75
2/1 3:	1	. 0	68	456 71	1	Ç	62	3817 78	1	_	75
241 50	1	. ૦		499 89	1	0	€2	3862 31	1	_	76 76
2-2.65	1			495 03	1	Õ	85	4709 96 5334, 54	1 1	-	76 76
242 70	3			475.37	1	0	6 3	5693.95	1		97
물리되 원물		. 0		555 33 559 92	1	٥	£3	6352.85	i		97
20a 72		. 0		560.00	1	Ö	84	£630 50	î		77
171 11 177 5		1 0 1 0		576. 58	i	Ğ	€4	6988 17	i		97
273 FT 277 33				595 24	i	ŏ	84	7054 91	1	0 4	98
272 5			-	652 34	i	Ğ	25	7664 52	1	-	98
283 4		i		561 76	ī	č	85	8376 27	1	_	43
235 1				677 97	1	0	25	8592.19	1	-	99
23: 31		i		689 42	1	0	25	8890 65	1	_	ዓ ና
111-11			72	691 76	1	c		11810.40	1	-	ر - خ
	;			718 92	ì	Ģ		13147 20	1		oo.
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ASTONE	AREA	STONE	SURFAC	E
COUNT	MID	POINT	ONE	SY

COUNT	MIDPOINT	ONE	SYMBOL	EGUA!	APF	OXIMATELY	8.00	OCCURRENCES
257	318	****	*****	*****	*****	*******		
21	974	***						
7	1630							
•	2286	•						
Ċ	2742							
ž	3578							
***************************************	4254							
i	4710							
ž	5566							
- 1	6222							
š	6878							
	7539							
1 1 2	8190							
•	8546							
	7502							
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	10138							
Ž	11470							
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	12126							
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		U	80	1000.4		240	320	400
			HIP	TOGRAM	FIXEG.	ENCY		
°∈4'.	ن 205 125	ST	D ERR	102.	450	MEDIAN		0.0
∺ಗರಿΣ	G. G	ST	D DEV	1824	Ce3	VARIANO	E 33	27204.08
JATORIE -	24 193	S	E KURT	1	967	SKEWNES	S	4. 685
S E 5724	. 137	PA	NGE	13756.	133	MINIMUN	;	O. C
es grape	13756-133	SU	M	191824	502			
FLE TENTILE	VALUE	PE	KCENTIL	E VA	LUE	PERCENT	TILE	VALUE

AGA V AFEA: GALVANIZED SURFACE

VALUE LAGFL	VALUE	FREQUENCY	PERCENT	VALID PENCENT	CUM PERCENT
	0.0	294	92.7	92. 7	92. 7
	79. 89	1	. 3	. 3	93.1
	469.64	1	. 3	. 3	93. 4
	510 91	1	. 3	. 3	93.7
	950.88	i	. 3	. 3	94.0
	1006.71	ī	. 3	• 3	94.3
	1200.00	;	. 3	. 3	94.6
	1304. 57	i	3	. 3	95. Q
	2513.07	:	3 3	. 3	95 3
			. 9		
	3536. 46	3		9	96.2
	4317. 01	2	. 6	. 6	76. B
	4594, 49	1	. 3	. 3	97.2
	5414 24	3	. 🕈	. 🗣	98 . 1
	11176 49	1	. 3	. 3	98. 4
	63763 21	i	. 3	. 3	98.7
	64840 40	;	Š	. 3	99. 1
		:			99.4
	8376. 96		. 3	. 3	
	208703 27	1	. 3	. 3	79.7
	500318.73	1	. 3	. 3	100.0
	TOTAL	317	100.0	100.0	

MISSING CASES 0

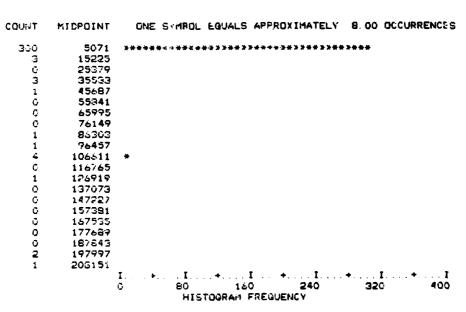
		NIZED SURFACE			
COUNT	MIDPOINT		EQUALS APPROXI		
312	11909 35734 59559 83384 107209 131034 154859 178684 202509 226334 250159 273504 297807 321604 345459 369284 393109 416934 440759 464584 498409	I I	160	. I+	. I
	A 657		TOGRAM FREGUENO	.Y MFDIAN	0. 0
nean Note Notetobis Sie Sach Maximum	3103 557 0 0 212 712 .137 503318 725	STO ERR STD DEV S E KURT RANGE SUM	31142 321		969844164
FERCENTIL	F VALUE	PERCENTIL	E VALUE	PERCENTIL	E VALUE
10 00 50 00 70 60	0 0 0 0 0 0	25, 00 86, 70	0. O C G	33. 30 75. 00	0. 0 0. 0
VALID CAS	ES 317	MISSING	CASES 0		
ATTHEF	AREA OTHE	R MATERIALS			
CA! UE	FREG PCT	PCT VALUE	CUM FREG PCT PCT	VALUE	
9 0 9 5 1 00 1 07 1 05 11 20 18 55 20 76 21 07 21 25 21 49 21 57 21 90 21 90 22 76 22 76 22 76 23 00	1 0 1 0 1 0 1 0 2 1 1 0 1 0	42	1 0 56 1 0 57 1 0 58 1 0 58 1 0 58 1 0 58 1 0 59 1 0 60 1 0 60 1 0 61 1 0 61 1 0 62 1 0 62 1 0 63 1 0 63 1 0 64	294 55 307 31 284 04 281 05 281 05 281 05 281 00 431 72 436 36 505 53 507 55 534 12 544 86 546 84 566 30 617 53 659 79 673 32 730 43 748 00 831 54 840 00 851 20	1 0 71 1 0 72 1 0 72 1 0 72 1 0 73 1 0 73 1 0 74 1 0 74 1 0 74 1 0 75 1 0 75 1 0 76 1 0 77 1 0 77 1 0 77 1 0 77 1 0 77

23 12	2	1	49	47. 37	1	0	64	878. 25	1	0	79
23 67	1	Q	50	49. 41	1	0	64	902.69	1	0	79
24 12	1	Э	50	51.39	1	0	65	962.75	1	0	79
24 59	1	0	50	51.76	. 1	0	65	964. 78	1	0	79
25 17	1	0	50	58.10	1	0	65	9 90. 74	1	0	80
25.5	i	0	51	67. 33	1	0	66	1042 53	1	0	80
26. 01	1	Ō	51	76. 72	1	0	66	1113, 22	1	0	80
25.03	2	1	52	77. 77	1	0	66	1116.28	1	0	81
26 75	1	0	52	79. 12	1	0	67	1124. 51	1	0	31
26.62	1	ō	52	75. 32	1	0	67	1238.04	1	0	81
26 91	1	Ō	53	137. 70	1	٥	67	1380.65	1	0	82
27 35	1	0	53	159.78	1	٥	68	1382, 22	1	0	82
27, 45	1	G	53	165.86	i	0	68	1420.45	1	0	82
27 50	1	ō	54	167. 55	1	ō	68	1431.68	1	Ö	83
27. 5a	1	ō	54	181, 38	1	ō	68	1444.13	1	Ö	83
26 13	1	ō	54	177.00	1	ō	69	1502.68	1	0	83
28 62	1	ō	55	216 18	1	ō	69	1578. 46	1	٥	84
29 29	1	ō	55	231.21	1	ō	69	1597, 20	1	0	84
25 21	-	õ	55	243 96	1	ŏ	70	1641 79	1	Õ	84
25 5	÷	ō	5e	208 29	1	ō	70	1691 33	1	ō	35
70 0	•	ŏ	5.	272 45	•	č	70	1744 28	i	ŏ	85
93 1 7	•	Ö	5 c	20. 72	<u>.</u>	ō	71	1766 19	į,	ŏ	ÕĒ

ABTHER AREA:	OTHER	MATERIALS
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CONTRACT CONTRACT CONTRACT CONTRACT

			CUII				CUIT				CUM
UAI UE	FREO	PCT	PCT	VALUE	FREG	PCT	PCT	VALUE	FREG	PCT	PCT
1768.80	1	0	85	2395. 65	1	0	91	12285. 68	1	٥	95
1758.87	1	0	86	2421.74	1	0	91	14640.00	1	0	96
1769, 45	3	1	87	2767.06	1	0	71	35457. 03	1	0	96
17/1 37	1	0	87	2830. 19	1	0	92	37685. 95	1	0	96
1798.03	1	0	87	3304. 47	1	0	92	39249.64	1	0	97
1809.05	1	0	88	3552. 96	1	٥	92	43931.12	1	0	97
1948 87	1	0	88	3952. 98	1	0	93	87681.27	1	0	97
1998, 52	1	0	88	4913. 56	. 1	0	93	97902. 68	1	0	97
2005.32	. 1	0	89	6868. 34	1	0	93	108091.8	3	1	78
2138 45	1	0	69	7492.50	1	0	94	100807.5	1	0	99
2206.18	1	0	89	7633.05	1	0	94	126841.6	1	0	99
2213 65	2	1	90	9028.00	1	0	94	190993.5	1	0	99
2227 27	1	0	90	9903. 13	1	0	95	202093.5	1	٥	100
2334 11	1	0	91	11807, 23	1	0	95	213222.0	1	0	100



ANTHER	AREA:	OTHER	MATERIALS
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MEAN HODE KUFTOSIS S E CKEU MAXINUM 21	5370.366 0.0 39.915 .137 13222.029	STD DEV 25 S E KURT RANGE 213	1427, 805 5421, 351 1, 994 3222, 029 02405, 92	Median Variance Skehness Minimum	24, 590 646245066 6, 101 0, 0
PERCENTILE	VALUE	PERCENTILE	VAI UE	PERCENTILE	VALUE
10.00 50.00 93.00	0: 0 24: 590 2248: 641	25. 00 66. 70	0.0 79.816	33. 30 75. 00	0. 0 545. 850
VALID CASES	317	HISSING CASE	E		

Roof material and roof-mounted apparatus items and material types

CAREA EXPOSED CHIMNEY AREA

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	0	160	50 . 5	5 0. 5	50. 5
	ě	100	. 3	. 3	50.8
	10	ī	. 3	. 3	51.1
	12	ž	. 6	. 6	51. 7
	16	1	. 3	. 3	52. 1
	18	i	. 3	. 3	52. 4
	30	ī	. 3	. 3	52. 7
	32	i	. 3	. 3	53. 0
	35	i	. 3	š	53 3
	36	Ž	. 6	. 6	53. 9
	40	4	1.3	1.3	55. 2
	50	10	3. 2	3. 2	58.4
	60	i	. 3	∵.3	58.7
	75	21	6.6	6.6	65. 3
	100	32	10. 1	10. 1	75. 4
	120	1.	3	3	75. 7
	140	ī.	. 3	. 3	76.0
	150	31	9.8	9.8	85. B
	170	1	. 3	. 3	86. 1
	175	4	1.3	1.3	87.4
	200	20	6. 3	6. 3	93. 7
	240	1	. 3	. 3	94 0
	250	1	. 3	. 3	94.3
	260	1	. 3	. 3	94.6
	275	1	. 3	. 3	95.0
	300	7	2. 2	2. 2	97. 2
	310	1	. 3	. 3	97. 5
	350	1	. 3	. 3	97. B
	360	1	. 3	. 3	98 1
	500	3	. 9	. 9	99. 1
	720	1	. 3	. 3	99.4
	1000	1	. 3	3	99.7
	1010	1	. 3	. 3	100.0
	TOTAL	317	100.0	100 G	

CAREA	EXPOSED CHI	HNEY AREA
COUNT	MIDPOINT	ONE SYMBOL EQUALS APPROXIMATELY 4.00 OCCURRENCES
171	15	********************************
36	64	3-> > + 0-0-0-1
33	113	******
37	162	4 *******
20	211	****
4	560	•
6	305	**
ž	359	•
0	407	
0	456	
3	505 554)
Ğ	557 603	
ŏ	552	
i	701	
ō	750	
Õ	799	
G	849	
0	897	
0	946	
2	995	•
		In the following the state of t
		0 40 80 120 160 200
		HISTOGRAM FREGUENCY
"- AN	75, 379	STD ERR 6.988 HEDIAN 0.0
1:302	O. O	STD DEV 124.418 VARIANCE 15479 913
RURTGEIS	21. 376	S E KURT 1.994 SKEHNESS 3.722
S E SKEW	. 137	RANGE 1010 000 HINIMUM 0 0
MAXINUM	1010.000	SUM 23395.000
PERCENTILE	VALUE	PERCENTILE VALUE PERCENTILE VALUE
16, 00	0. 0	25.00 0.0 33.30 0.0
50.00	0.0	55.00 0.0 33.30 0.0 56.70 100.000 75.00 100.000
70.00	200,000	44.79 100.000 70.00 100.000
70.00	_ , , , , , , , , , , , , , , , , , , ,	
VALID CASE	S 317	missing cases 0

CHAT CHIMNEY HATERIAL

VALUE LABER HOND- PAINTED BRICK STONE OTHER	L	VALUE G 1 2 3 4 TOTAL	4 2 	50. 5 . 6	50. 5 . 6 47. 0 1. 3 . 6	PERCENT 50. 5
	NONE				160 I	
	PAINTED	11 2 11 2				
	BRICK	l 			149 I	
	STONE 4	II 4 -+ I -+				
		I II O 40	80	120 GUENCY		200
KURTGEIE	-1.571	STD ERR STD DEV S E KURT RANGE SUM	. 059 1. 042 1. 994 4. 000 320 000	SKEN	AN ANCE NESS MUM	0.0 1.095 .194 0.0
FERGENTILF	VALUE	PERCENTIL	E VALUE	PERC	ENTILE	VALUE
16.63 51.13 70.03	C 0 C 0 2 115	25 0 0 Um 70	0 0 2 000		96 60	0.0 2.000

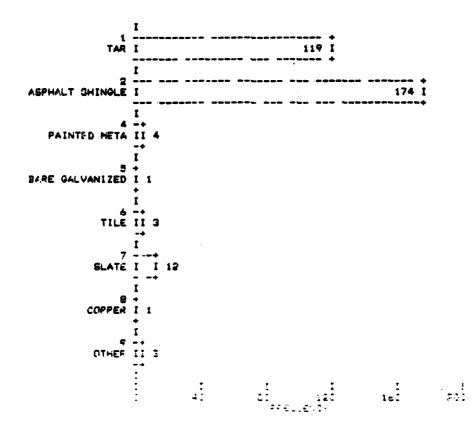
128.50 0-66-

ESARE4	AREA OF	E.	(POSED	ROOF							
			CUR				CUM				CUM
الدا لاد	FREG P	CT	PCT	VALUE	FREG	PCT	PCT	VALUE	FREG	PCT	PCT
90	1	0	0	1907	1	0	60	14800	1	٥	32
5 5 0	2	Ĺ	1	1953	i	٥	60	15000	4	1	83
600	2	1	2	1930	1	0	61	16000	5	1	84
610	4	i	3	1986	1	0	61	16800	1	0	84
659	3	1	4	2000	4	1	62	18000	1	0	85
570	14	4	8	2100	1	C	62	18480	1	0	85
873	1	0	9	2154	1	٥	63	19800	1	0	85
680	3	1	9	2250	1	0	63	20000	2	1	35
693	3	1	10	2400	2	1	64	21000	1	0	34
700	7	3	13	2500	2	1	64	21600	1	0	36
768	33	10	24	2579	1	Ö	65	21840	1	Ö	87
770	1	Ö	24	2700	1	0	65	22500	1	0	87
780	1	Ö	24	2760	1	Q	65	23400	1	ō	87
763	1	ō	25	2300	1	O	66	24000	1	Ō	38
860	Ā	1	26	2830	ĩ	ō	66	24300	1	o	88
807	1	ō	26	3000	4	1	67	25200	1	0	88
820	ī	Ğ	26	3100	1	ŏ	68	27000	1	ō	89
825	ī	ō	27	3200	ī	ŏ	68	27300	ī	ō	87
850	1	ō	27	3500	4	1	69	29000	i	ō	87
850	Ž	ž	29	3500	1	ō	69	30000	. 2	1	70
877	3	1	30	4000	4	ī	71	31860	1	ō	90
900	ī	ō	31	4500	2	ī	71	32000	ī	ō	91
733	12	4	34	4300	1	ō	72	32700	i	Õ	91
950	13	6	40	4900	1	ō	72	33400	1	ō	91
970	ž	1	41	5500	i	ō	72	36000	1	ō	91
980	1	ō	41	6000	ī	ŏ	73	38400	i	ō	92
1000	4	ī	42	6400	1	ō	73	40000	ž	1	92
1131	ż	1	43	6462	1	ō	73	40500	1	ō	93
1200	3	3	45	6500	2	1	74	45000	1	ō	93
1221	2	1	46	6900	ī	ō	74	56000	ī	ŏ	93
1225	ī	ō	46	7000	š	ī	75	57000	ī	ō	94
1250	ī	ō	47	7200	3	1	76	66000	1	ō	94
12-5	ī	ō	47	8000	5	1	77	69696	9	3	97
1270	ī	ć	47	9000	5	2	78	70000	i	ō	97
1271	<i>7</i> ·1	7	54	10000	5	1	79	102640	ī	ō	97
1346	ì	Ó	54	10120	1	ō	79	180000	ī	ō	98
1350	ş	1	55	10300	ī	ō	79	240000	ī	ō	93
1400	3	i	5é	11440	ī	ŏ	80	251200	ī	ō	78
1909	4	i	57	12000	i	ŏ	80	350000	i	ō	97
1600	3	i	56	13000	i	ŏ	80	375000	3	1	100
1725	i	ô	58	14000	ī	ō	61	599999	1	ō	100
1733	ż	1	59	14300	i	ŏ	81	,	•	•	
1000	=	•	4.0	14300	•	٧	95				

erafea	AREA OF EXP				
COUNT	MIDPOINT	ONE SYMBOL	EQUALS APPR	DXIMATELY	8.00 OCCURRENCES
275	23875	*****	*****	*******	**
13	71510	**			
1	119125				
1	156740				
0	214355				
2	261970				
1	309565				
3	357200				
0	404315				
0	452430				
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	7/6173	T + I.	+ 1	+ 1	1 + 1
		0 90	150	240	320 400
			STOGRAM FREG	JENCY	
	47/57 575	STU ERR	4092 816	MEDIAN	1271, 000
	17637, 97 5 768, 000	STD DEV			CE 5310113140
INDE	110.762	S & KURT		SKEWNE	88 9.378
KUFTOSIS S E SKEU		RANGE	999909, 000	MINIMU	4 7 0.000
S E STEN	999979.000	SUM	5591238.00		
MANA DAMA	44777.000	••••			
PERCENTIL	F VALUE	PERCENTI	LE VALUE	PERCEN	TILE VALUE
		0= 00	800, 000	33. 3	0 933. 000
10.00	673.000	25.00 66.70	3000,000		
50 00	1271 000	as. /U	3000.000		_ ,
70. 0 0	31939 000				
VALID CAS	EES 317	HISSING	CARES 0		

EMMAT ROOF MATERIAL TYPE

VALUE LABFL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
TAR	1	119	37. 5	37. 5	37.5
ARPHALT SHINGLE	2	174	54. 9	54. 9	92. 4
PAINTED HETA	4	4	1.3	1. 3	93 . 7
BARE GAI VANIZED	5	1	. 3	. 3	94. 0
TILF	6	9	. 9	. 9	95. 0
SI ATE	7	12	3. 8	3. 8	98. 7
COPPER	8	1	. 3	. 3	99. 1
OT: i≻R	Ÿ.	Š	. 🕈	. 9	100.0
	TOTAL	317	100.0	100.0	



ENMAT FO	Or MATERIA	L TYPE			
MAR. MODE AURTOSIS S E SKEU MONIMUM	1. 972 2.000 9. 252 137 9.000	SID ERR SID DEV S E KURT RANGE SUM	082 1. 461 1. 994 8. 000 425. 000	Median Variance Skenness Minimum	2.000 2.135 2.595 1.000
FERCENTILF	VALUE	PERCENTILE	VALUE	PERCENTILE	VALUE
10 00 50 00 90 0 0	5 000 5 000 1 000	25.00 66.70	1,000 2,000	33. 30 75. 00	1,000 2,000
VALID CASES	317	MISSING CAS	ES 0		

ELOPE INDICATOR ROOF SLOPE

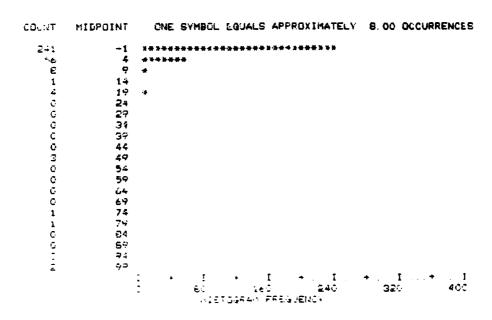
VALUE LABEL		VALUE	FREGUENCY	PERCENT	VALID PERCENT	CUM PERCENT
		1 2	210 107	66. 2 33. 8	66. 2 33. 8	66. 2 100. 0
		TOTAL	317	100.0	100.0	
	I			4		
	i I		2	10 I		
	I 		→			
	2 I	107	I			
	I I	I .	150	I 240 EQUENCY	1 320	

		•			
the Altv	1.339	STD ERF	. 027	MEDIAN	1.000
HUDE	1.000	STD DEV	474	VARIANCE	224
RUFTGEIS	-1.533	S E KURT	1. 994	SKEWNESS	. 690
E E SHEU	. 137	RANGE	1.000	MINIMUM	1.000
MAX INUM	5 000	SUM	424.000		
FERCENTILF	VALUE	PERCENTILE	VALUE	PERCENTILE	VALUE
10 00	1.000	25.00	1.000	33. 30	1.000
50 0 0	1.000	56. 70	2.000	75.00	2.000
90 0 0	2.000				
VALID CASES	317	MISSING CAS	ES 0		

INEME NO OF VENTS, FLUES, STACKS

general economic property than

VALUE LABEL	VALUE	FREGUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	0	127	40. 1	40. 1	40. 1
	1	114	36.0	36.0	76 Q
	2	22	6. 9	6. 9	€3. O
	3	12	3. 8	3. 8	86. 8
	4	12	3. 8	3. 8	90.5
	5	9	2.8	2. 8	93. 4
	<u>.</u>	i	. 3	. 3	93. 7
	š	š	. 9	Ä	94.6
	10	5	1.6	1.6	96. 2
	15	1	∵.3	. 3	96.5
	50	4	1.3	1.3	97. 6
	50	3	. 9	. 9	98. 7
	75	•	. 3	. 3	99.1
		1	. 3	. 3	99.4
	80				
	79	2	. 6	. 6	100.0
	TOTAL	317	100.0	100. Q	



TEN	P	F VENTS.	 ウエックレビ

NEAN HODE AUFTOBIS S.E.SKEA HOXINGS	3 044 0 0 47 910 137 99 000	STD ERR STD DEV S E KURT RANGE SUM	628 11.176 1 954 59.000 965.000	MEDIAN VARIANCE SKEWNESS MINIMUM	1,000 124,903 6,672 0,0
FERCENTILF	VALUE	PERCENTILE	VALUE	PERCENTILE	VALUE
10 00 50,00 70 0 0	0. 0 1. 000 4. 000	25. 00 56. 70	0 G 1.000	33. 30 75. 00	0. 0 1. 000
VALID CASES	317	MISSING CAS	ES G		

ITEMS NO OF SWYLIGHTS

VALUE LABS	FL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	
		0 10	316 1	99. 7 . 3		99-7 100:0
		TÜTAL	317	100.0	100.0	
		I				
	0	I			316 I	
	4.3	I F				
	10	+ I				
		0 80 I I I I	1 60 I	. I 246 IQUENCY	320	400
			* * * * * * * * * * * * * * * * * * * *			
e≟AN rece	. 032	STD ERR SID DEV S E MURT	.032 563	HEDI Vari	AN ANCE	0.0 .315
METORIS	317.000	SEMURT	1.994	SKE	NESS	17.804
S E SKEN	137	RANGE	10.000	ININ	MUII	0.0
maximum	10.000	RANGE SUM	10,000	_		-
FERGENTILE	VALUE	PERCENTIL	E VALUE	PERC	ENTILE	VALUE
10 00	0. 0	25, 00	0 0	33	30	6 0
50,00	0 0			75	00	c o
93 03	0. ū					
VALTO CASES	317	MISSING C	ASES 0			

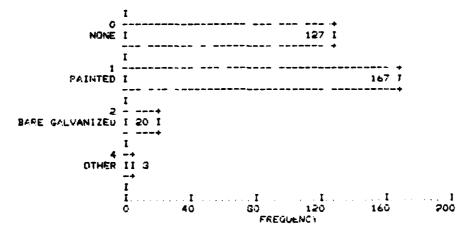
SKYLIGHT HATERIAL

VALUE LAS	EL	VALUE	FREQUENCY	PERCENT	VALID PENCENT	
13 HATCHIAL BARE ALUMIN		0 3	31e		99. 7 . 3	
		TOTAL	317	100.0	100.0	
_	C	<u> </u>				
БМ	MATERIAL	I			316 I	
BARE	E HUNI MU JA	+				
		G 90	160	I. 246 GUENCY		
en- At-	. 009	STD ERR STD DEV		MEDI VARI		
		S E KURT				. 028 17. 804
MAXIMUM S E SKEW	. 137 3. 000	RANGE SUM	3. 0 00 3. 0 00	INIH	HUH	0. 0
PERCENTILE	VALUE	PERCENTIL	E VALUE	PERC	ENTILE	VALUE
10 00	0.0	25. 00			. 30	O. O
50 00 90 00	0. 0 0. 0	<i>\$</i> 6. 70	0.0	75	5. 00	Q. O

RMAT FOOL APP MATERIAL

.ALTD CASES 317 MISSING CASES 0

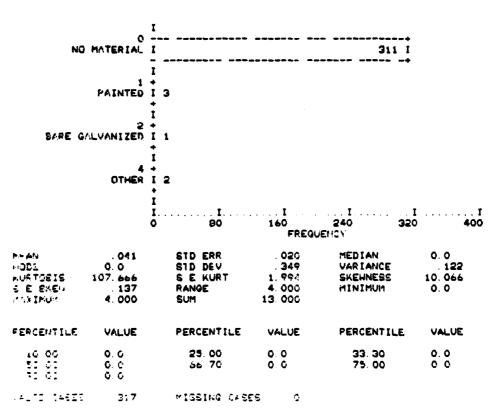
VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
KONE	0	127	40. 1	40. i	40. 1
PAINTED	1	167	52. 7	52 . 7	92. 7
BARE GA: VANIZED	2	20	6. 3	6. 3	99. 1
OTHER	4	3	. 9	. 9	100. Q
	TUTAL	317	100.0	100 0	



Mean) Mode Yurtosis S. E. Skeu Kaxihum	491 1.000 3.973 .137 4.000	SID ERR SID DEV S E KURT RANGE SUM	.038 .674 1.994 4.000 219.000	MEDIAN VARIANCE SKEWYESS MINIMUM	1.000 .455 1.211 0.0
FERCENTILF	VALUE	PENCENTILE	VAL UE	PERCENTILE	VALUE
10.00 53.00 70.00	0, G 1, 000 1, 000	25 00 56 70	0. 0 1. 000	33. 30 75. 00	0. 0 1. 000
.ALII 14979	217	MISSING CAS	2 5 0		

FLMST FLASHING MATERIAL

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
to MATERIAL	٥	311	98. 1	98 . 1	98. 1
FAINTED	1	3	. 9	. 9	99. 1
BARE GAI VANIZED	2	1	. 3	. 3	99. 4
OTHER	4	ā	. 6	. 6	100.0
	TUTAL	317	100.0	100.0	



TLAREA FLASHING AREA SG FT

VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	
CREATER THAN 999	200 475 750 997	2 1 1 2	.6	. 6	98. 7 79. 1 99. 4 100. 0
	TOTAL	317	100.0	100.0	
1					
0 1				311 1	
50 0 1	2				
475	1				
750	1 1				
GTEATER THAN 959 1	2				
1		160	I 240 Guency	320	400
154M 11 429 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	STD ERR STD DEV S & KURT RANGE SUM	5.306 94.513 1.994 999,000 3623.000		NESS	0.0 932.657 9.211 0.0
TERRETTILE VALUE	FEMCENTIL	E VALJE	PERC	ENTILE	VALUE
	25 00 25 70	9 °	33	. 3: .:	0 0

Rain gutters, downspouts and fences

ROBERT - RATH GUTTER MATERIAL

valvē LABEL		0 1 2 4	FREQUENCY 123 164 17 13	38 8 51 7 5 4 4 1	38. 6 51. 7 5. 4 4. 1	PERCENT 36. 8 90. 5
	ō	I	317	100.0	190. 0	
		I +			164 1	· !
		I I 17 I I 19				
		I	80	I 120 EQUENCY	I 160	500 I
::35E AUPTGBIE S E E E	. 787 1 000 4. 984 . 137 4. 000	S E KURT Range	. 87 7 1. 9 94	VAR I SKEH	(AN TANCE INESS THUM	1.000 .768 1.700 0.0
PERCENTILF	VALUE	PERCENTIL	E VALUE	PERC	ENTILE	VALUE
10 01 51 11 52 11	0 0 1 000 1 000	25 00 46, 70	G. G 1 OCC	33 75	3. 30 5. 00	0.0 1.000
.,111 I-66.	317	PISEING C	# DES - G			

FG INSTH. RAIN GUTTER LENGTH

VALUE LABEL	VALUE	FREGUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	0	123	38 8	38. 8	38. 8
	4	i	. 3	. 3	35 1
	30	3	. 9	. ♥	40.1
	40	6	1. 9	1. 9	42.0
	45	ī	. 3	. 3	42 3
	50	6	1 9	1.9	44. 2
	60	33	10 4	10.4	54 6
	70	19	6 0	۵. 0	50 . 6
	90	49	15.5	15 5	76.0
	90	28	8.6	8 6	84. 9
	100	22	6 9	6.9	91.8
	110	1	Ğ	. 3	92.1
	120	â	. 6	. 6	92.7

130	•	. 3	. 3	93. 1
140	2	1.3	1.3	94.3
150	6	1.9	1.9	96. 2
160	1	Ī. s	. 3	96. 5
200	1	. 3	. 3	96 8
250	2	. 6	. 6	97.5
260	1	. З	. 3	97.8
300	1	. 3	. 3	98. 1
340	1	. 3	. 3	98. 4
400	1	. З	. 3	98. 7
560	1	. 3	. 3	99. 1
600	1	. З	. 3	99.4
999	2	. 6	. 🖨	100.0
TOTAL	317	100.0	100 0	

FILTHITH BY IN GUTTER LENGTH

COURT	MIDPOINT	ONE SYMBOL EQUALS APPROXIMATELY 4. 00 OCCURRENCES
133 136 26 11 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0	164 212 260 308 304 452 509 544 452 544 4740 788 824 780	**************************************
NEAL TUDE FURTUSIS S.E. SKEN TOXINUM	62 735 0.0 46. 963 137 999 000	STD ERR 5.756 MEDIAN 50.000 STD DEV 102.479 VARIANCE 10501.799 S E KURT 1.994 SKENNESS 5.902 RANGE 799.000 MINIMUM 0.0 SUM 19887.000
PERCENTILE	VALUE	PERCENTILE VALUE PERCENTILE VALUE
10 00 50 00 50 00	0.0 40.000 100.000	25. 00 0. 0 33. 30 0. 0 66. 70 80. 000 75. 00 80. 000
VALID CASES	317	MISSING CASES C

ESTOL: MATERIAL OF DOWNSPOUT

VALUE LABF	· •	VALUE	FREQUENCY	PERCENT	VALID PERCENT	
		Q 1 2 4	123 173 19 2	34.6	6.0	93.4
		TOTAL	317	100.0	100.6	
	1					
	0 I			123 I		
	<u> </u>					-+
	1 I				173	-+
	I 	+ 19 I				
		>				
	4 II -+	2				
	I I. O		1. BG FRE	I 120 GUENCY	I 160	500
NEAT POSE POSTOSIS SISISPEJ	. 691 1. 000 3. 198 . 137	STD ERR STD DEV S E KURT RANGE	4 000	HINT	AN ANCE NESS MUM	1.000 .410 .965 0.0
en Itige	4 000	SUM	219.000	******	******	U . U
PERCENTILE	VALUE	PENCENTIL	E VALUE	PERC	ENTILE	VALUE
50 00	0 0 1 000 1 000	25 00 66 70	0. Q 1. 000		. 30 . 00	
74172 C4868	217	MISSING C	49E4 0			

DELENG DEWASPOUT LENGTH

VALUE LASEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
	٥	123	39. 8	38.8	38. 8
	30	2	. 6	. 6	39.4
	25	2	. 6	. 6	40. 1
	30	22	6. 9	6. 9	47.0
	40	45	14.2	14. 2	61.2
	45	2	. 6	. 6	61.8
	50	35	11.0	11. G	72. 9
	60	55	17. 4	17.4	70.2
	70	2	. 6	. 6	90.9
	80	15	4.7	4.7	95. 5
	90	ā	. 6	. 6	96.2
	100	2	. 6	. 6	96. B
	120	2	. 6	6	97 5
	190	2	. 6	. ė	98.1
	200	2	. 6	6	98.7

240 300 500	1 1 2	3	. 3 . 3	99. 1 99. 4 100. 0
TOTAL	317	100.0	100.0	

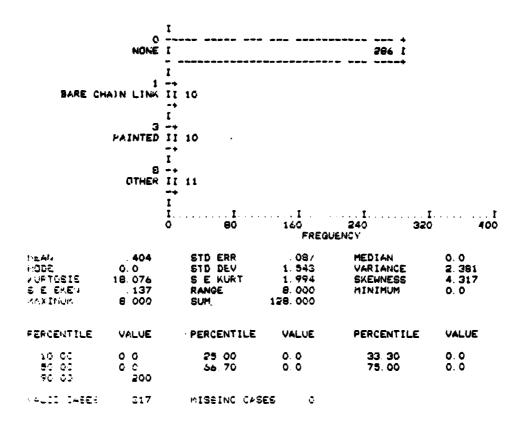
ಕೊಂಡಿಕ	MIDPOINT	ONE SYMBOL EQUALS APPROXIMATELY 4.00 OCCURRENCES
125	10	《政治疗病毒等》以中国政治的有效的有效的有效的有效的有效的有效的的。
-i	34	· · · · · · · · · · · · · · · · · · ·
	53	· · · · · · · · · · · · · · · · · · ·
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5	154	*
	178	
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ISLENC	DOWNSPOUT	

M-AL MODE AURTOBIS S.E.SMOU MIXINUM	37, 697 0, 0 37, 246 137 500 000	SID ERR SID DEV S E KURT RANGE SUM 1:	2.991 53 252 1.994 500.000 1750.000	Median Variahce Skeuness Minimum	40,000 2835,619 4,964 0,0
PERCENTILE	VALUE	PERCENTILE	VALUE	PERCENTILE	VALUE
10,00 50,00 90,00	0,0 40,000 52,000	25, 00 66, 70	0. 0 50. 000	33, 30 75, 00	0 0 60 000
VALID CASES	317	HISSING CASE	is 0		

FERGE FENGE TYPE

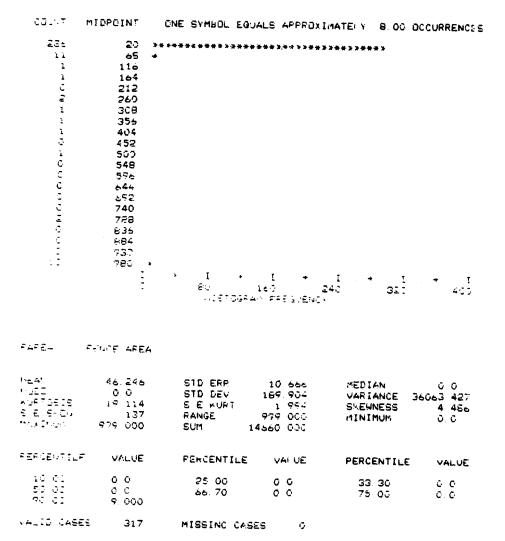
VALUE LABEL	VALUE	FREQUENCY	PERCENT	VALID PERCENT	CUM PERCENT
NGM- BIRE CHAIN LINK FAINTED CTIER	0 1 3 8	29e 10 10 11	90 2 3.2 3.5	90. 2 3. 2 3. 5	90, 2 93 4 96 5 100 0
	TOTAL	317	100 0	100 0	



FAREA FENCE AREA

				VALID	CUM
value label	VALUE	FREQUENCY	PERCENT	PERCENT	PERCENT
					20.0
	0	286	70. 2	90, 2	90. 2
	45	3	, 9	. 9	91.2
	60	1	. 3	. 3	91.5
	75	5	1.6	1.4	93. 1
		Ā		- 7	
	90	~	٠.	, 🍎	93. 7
	120	1	. 3	. 3	94. 0
	180	1	. 3	. З	94. 3
	240	ž	. 6	. 6	95. 0
	300	1	. 3	. 3	95.3
	360		. 3	Ĵ	95. 6
	400	. 1	. 3	. 3	95 . 9
	500	1	. 3	. 3	96. 2
	760	1	. 3	. 3	96. 5
	900		. 3	. 3	96. 8
	999	10	3. 2	3. 2	100.0
	TOTAL	317	100.0	100 0	

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